



The CHEMIST AND DRUGGIST

Established 1859

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VOL. CXVIII.

JANUARY 28, 1933

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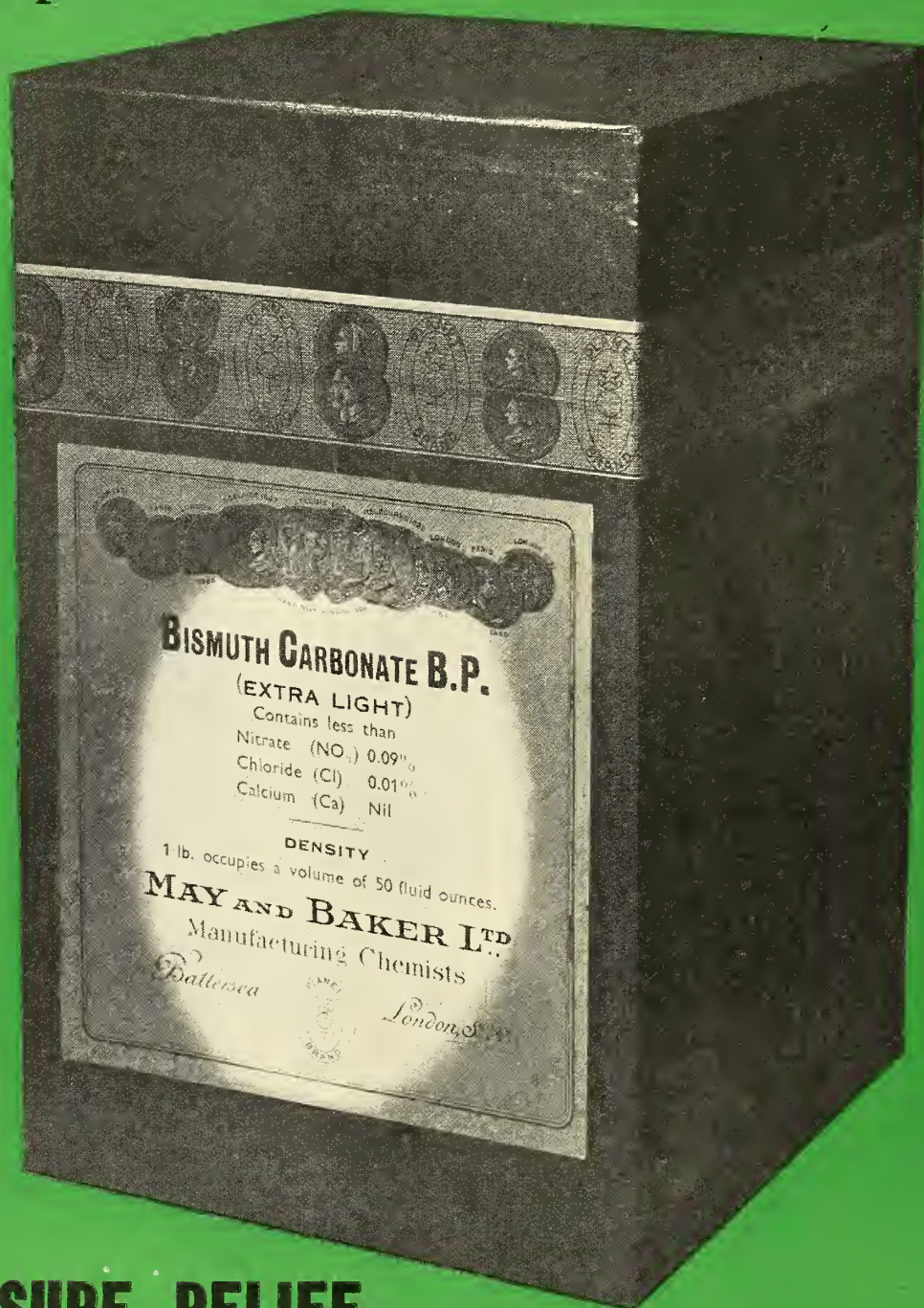
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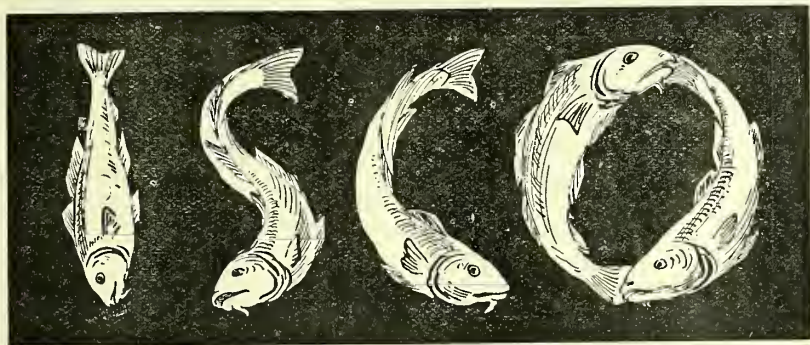


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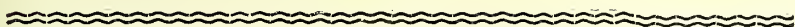
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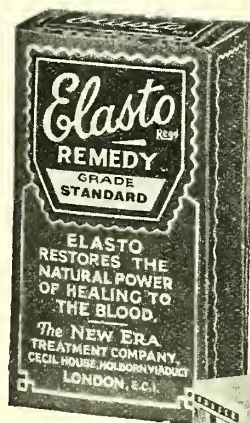
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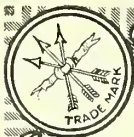
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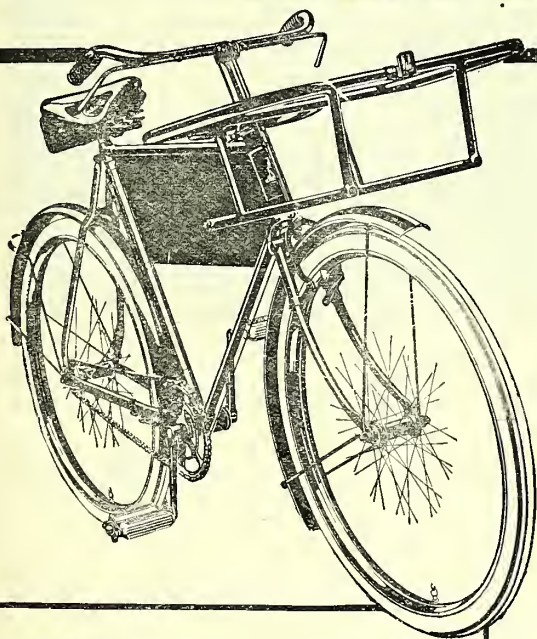
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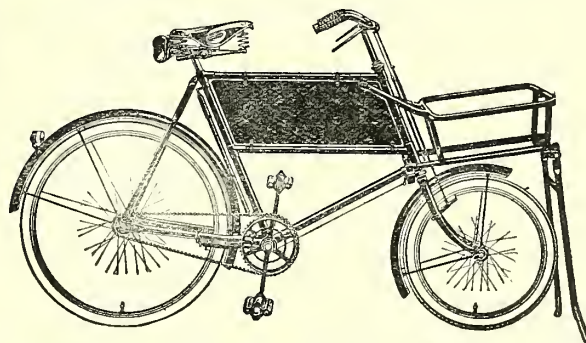
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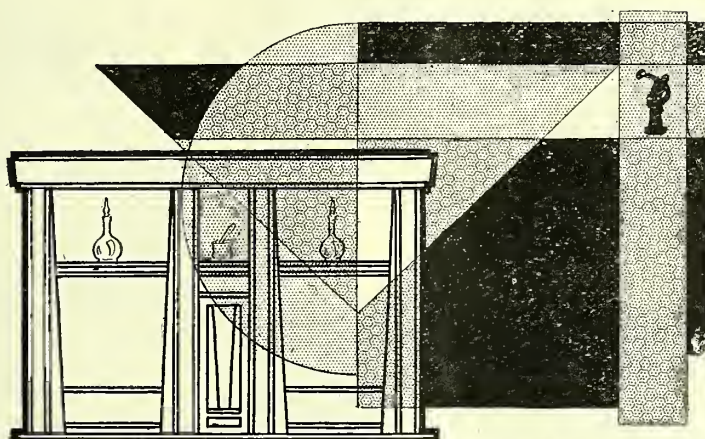
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Maw's Page



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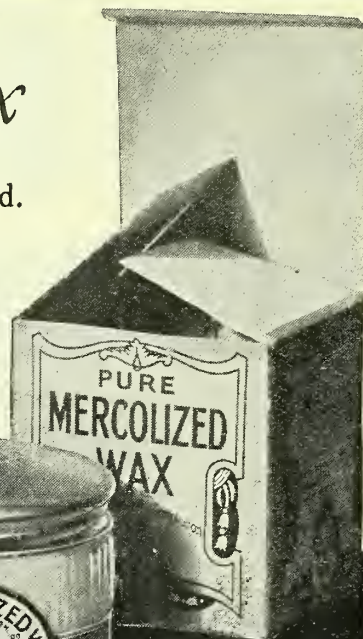
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"JIF" will show you a profit of practically 40%

PEARS

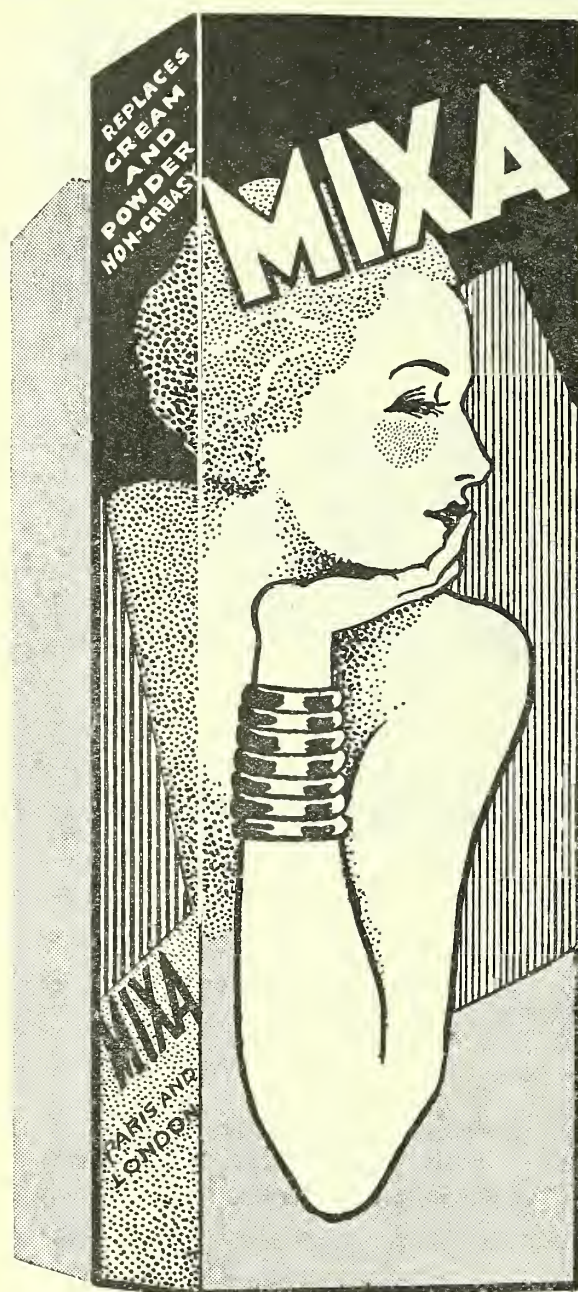
Jif

for Shaving

- If you haven't had full particulars of this—the biggest and most generous scheme since Golden Glory was introduced in 1926—WRITE NOW.

STICK
OR
CREAM

6^d



MIXA POWDER CREAM

A product of surpassing excellence and irreproachable perfume. Attractively packed and with handsome show matter, MIXA is a sure repeat seller. Stock now; consistent advertising will support you.

	Retail Price	Trade Price
Large -	2/-	16/- doz.
Medium -	1/3	10/- "
Small -	6d.	4/- "

Special Distribution Terms 15 to the Dozen

A Product of

CHARLES ROGER LABORATORIES, LTD.
15 GREAT JAMES STREET, LONDON, W.C.1

SELL AT
1/-
EACH

TIM

A
BRITISH BLADE / **4'9**
at a competitive price! PER GROSS

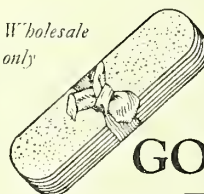
... that is meeting with great public favour. The Finest Steel, scientifically Hand-Honed. Send for sample to-day!

Dept. C.D., S.KALISKY (Aldgate) Ltd.

146 THEOBALD'S ROAD,
LONDON, W.C.1,
and at 16 WITTHY GROVE,
MANCHESTER.



Wholesale
only



BRITISH
MANICURE
GOODS *that meet Foreign Competition*

We specialise in ORANGE STICKS and EMERY BOARDS. BEST QUALITY. HAND FINISHED.

ROBERT LEE, 14 Calverley Grove
N.19

Phone: Archway 2144.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

B
EST
BRITISH
RUSHES

Please write for full Particulars to:

75 FARRINGTON ROAD, E.C.1

**IT SELLS FAST....
NOW SELL IT FASTER
....YOU MAKE MORE
PROFIT UNDER THE
FINE NEW TERMS....**

Forhan's

FOR THE GUMS AND FORHAN'S TOOTH PASTE

IF YOU HAVE NOT YET RECEIVED DETAILS
OF THE NEW "WINDOW DISPLAY" DISCOUNTS
WRITE TO STEMCO LTD. FOR PARTICULARS

STEMCO LIMITED, 128 ALBERT STREET,
CAMDEN TOWN, LONDON, N.W.1, SOLE
DISTRIBUTORS FOR FORHAN'S LIMITED

Best sellers

The public is asking for **ZEAL** CLINICAL THERMOMETERS

because they are:-

GUARANTEED TO STAY ACCURATE CONSISTENTLY ADVERTISED

Made by

ZEAL

-the name the public knows.

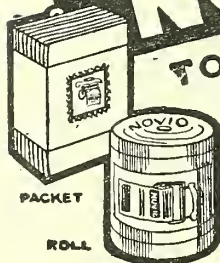
G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



NOVIO

TOILET PAPER

We are continuing our press advertising, and are again featuring the special sample offer which has won so many new customers for this superior toilet paper.



Look to your stocks now — there is good business waiting. Send a card for trade terms and samples to Novio Paper Co., 26 Grove Park, Camberwell, S.E.5

**THIN
SOFT
STRONG
SILKY**

See the "Lancet's" opinion, 27 July 1907

NOVIO
TOILET PAPER



To BUYERS of TRUSSES!

The most complete up-to-date facilities for the manufacture of **RUPTURE APPLIANCES** of every known English and American pattern are operating at

**BLACK BULL WORKS,
MARKET ROAD, LONDON, N.7**

Hard Rubber, Celluloid, Leather and Mole
Covered and Elastic Band Trusses, under the

"MASTER"
BRAND
TRADE MARK



are sold in all
Markets of the
World.

"KO-RALLIUM." A new flexible covering for Steel Springs, is immune from Warping, Cracking, Shrinking or Peeling, Non-Inflammable, Impervious to Moisture, Neutral to URIC ACID Secretions. Supersedes Hard Rubber or Celluloid.

Get to know of this. It is **Something Different!**

Suspensory Bandages and Jock Straps

We offer distinctive lines of outstanding value. Our weaving sheds allow of all intermediate profits being passed to our customers.

Write for sample range at Special Rate, then compare.

F. SCHUTZE & CO., LTD.

Black Bull Works, Market Road, London, N.7

The

"BURMEX" REGD

BRAND

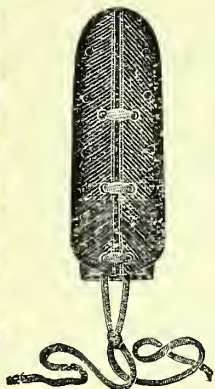
is made by a special Heat-Cured Process and is guaranteed not to deteriorate in either Home or Tropical climates for at least 2 years. Carefully tested and Warranted Absolutely Perfect.

Send for free sample to

A. BERMAN & SONS,
76, QUAY STREET,
MANCHESTER, Eng.

PRICE
24/-
Per Gross



"SOLPORT'S GOODS ARE GOOD GOODS"PAROUBEK'S
Regd.**"FOLDO"**

P.A.T.A.

RETAIL

6d.

EACH

PER

3/6 DOZEN

THE TWO BEST
FINGER STALLS
ON THE MARKET

THESE FINGER STALLS MADE BY US IN
OUR OWN FACTORIES IN LONDON
ARE EASILY THE BEST SELLERS
AND ANSWER EVERY REQUIREMENT.

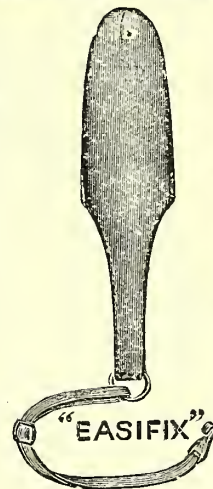
"FOLDO" WITH THE AUTO-
MATIC LACED EXPANDING GRIP FOR
BANDAGED FINGERS

"EASIFIX" WITH THE INSTANT-
ANEOUS SELF-ADJUSTING FASTENER

BEWARE OF INFERIOR SUBSTITUTES

SOLPORT
BROTHERS LIMITED

184-192 GOSWELL ROAD, LONDON, E.C.1



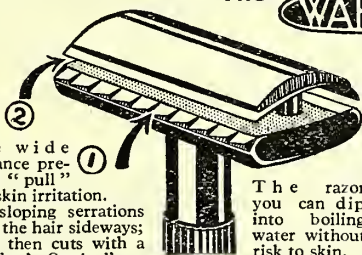
D498

RETAIL

6d.

EACH

PER

3/6 DOZEN**The World's Most Marvellous Razor !**The **WARDONIA**

The wide
clearance pre-
vents "pull"
and skin irritation.
The sloping serrations
bend the hair sideways;
blade then cuts with a
"Barber's Stroke."

The razor
you can dip
into boiling
water without
risk to skin.

Sensational,
incomparable,
miraculous.
Works wonders
with the stiffest
beard. Generous
supply of sales-
creating display
showcards, cut-
outs, etc., FREE.
Order NOW—or
send for list and
trade terms.

Sole Makers :

Thomas Ward & Sons, Ltd., Wardonia Works, Sheffield, Eng.

**BOTH-WAYS
TOOTH BRUSH**

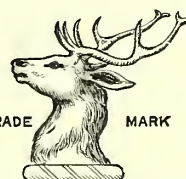
ATTRACTIVE — EFFECTIVE —
DURABLE

ALL HARD BRISTLES UNLESS OTHERWISE ORDERED

KEEPS ITS STIFFNESS

Gent's 11/-

Lady's 8/-



TRADE MARK

BIDWELLS,
AXMINSTER

BIDWELL BIDWELL & CO LIMITED.

8' gross
125% PROFIT
SELL AT **1/6** DOZ.

5'6 gross
100% PROFIT
SELL AT **2/6** DOZ.

5'6 gross
120% PROFIT
SELL AT **1/1** DOZ.

'OCEAN' BLADES

BRITISH-MADE AND BEST OF ALL.

Made from first quality steel by improved
method guaranteeing super-keen edge. Over
a hundred million sold to date. No better
blade obtainable at any price.

'OCEAN UNIVERSAL'

The super-quality Blade which fits every kind
of slot, stud or 3-peg razor holder.

'CONQUEROR' BLADES

Knock-out value in a PENNY Blade. Un-
questionably the finest blade obtainable at
the price. Best silver steel used.

Samples and attractive showcards free. Lead-
ing wholesalers stock all blades. For direct
supplies send P.O. or Cheque to

OCEAN BLADES (Gt. Brit.), LTD.,
Sales Dept., 1-6 Bridgewater Place,
London, E.C.1. (Clerk. 6257)

Blades also made under customer's own name—
state quantity.

DOES THIS INTEREST YOU?

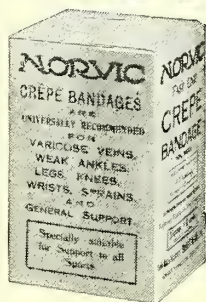
THE DIRECTORS OF
ROBINSON & SONS, LTD.
CHESTERFIELD

extend to you a cordial invitation to visit Stands B.44 and B.63 at the British Industries Fair, Olympia, February 20th to March 4th, 1933, where there will be exhibited a collection of over three hundred original and modern designs suitable for Cardboard Boxes of all kinds.

This display will include designs by

MEMBERS OF THE ROYAL ACADEMY
and other eminent Artists and will afford a unique opportunity for all those who are interested in the problems of applying Modern Art to the packages in which the Commodities of to-day are sold.

NORVIC Reg'd



**BLUE CARTON
CRÊPE BANDAGES**

The Blue Carton, prominently displayed in the window or on the counter, will increase your crêpe bandage sales enormously. On P.A.T.A. list. Full 33 1/3 % profit.

Stocked by the leading Wholesalers.

Sole Manufacturers:
GFOUT & CO., LTD.,
35 WOOD ST., LONDON, E.C.2

SANITARY TOWELS

made
by

The ORIGINAL and Most Popular
The "K." All wool in knitted cover,
very soft.
The "CELTEX." Made of Cellulose
for easy disposal.

FROM YOUR WHOLESALE HOUSE, PLEASE

SOUTHALLS

Your Wholesaler Can Supply

**MISS MUFFET
TOILET ROLLS**

675-700 Sheets of 100% Pure White Paper. Free from advertisement (printing ink is dangerous). Neatly reeled—well perforated—packed in dust-proof cartons.

IN CARTONS



THE MISS MUFFET TOILET PAPER CO., West Bridgford, Nott'm.

CORKS

for Chemists.

Send us your Enquiries
and compare our prices.
Wholesale and Export.

C. OLLEY & SONS, LTD.

Established 1844.

Camperdown St. and Gt. Alie St., London, E.1
Tel. No.: Royal 2868. Tel. Ad.: "Circumference, Ald, London."

METALLIC CAPSULES
FOR ALL KINDS OF BOTTLES AND JARS.

The Tonkin Metallic Capsule Co.
Proprietors: C. Olley & Sons, Ltd.

DRY. SELF-FIXING. ALL SIZES.

Finest Quality and Appearance.

Bottle Caps

Enquiries Invited. Samples Submitted.

T. C. Bussell 34 Gt. Tower St.
LONDON, E.C.3.

Phone: Royal 2154.

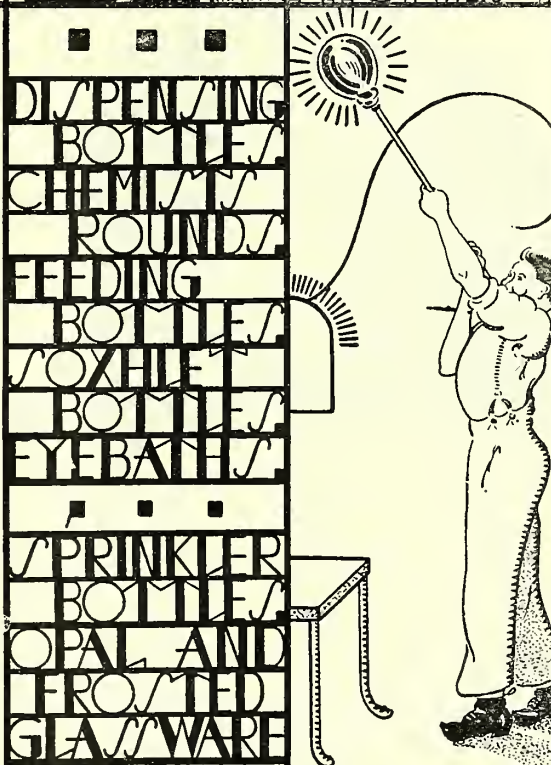
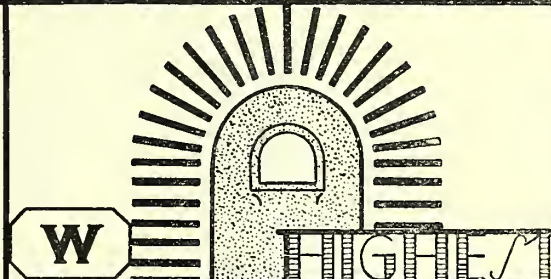
NOW BRITISH MADE

WAGNER'S DRY BOTTLE CAPS
BEST IN QUALITY & APPEARANCE



33 BROOKE ST., LONDON, E.C.1 Tel.: Holborn 5090

PHARMACEUTICAL



QUALITY GLASSWARE

K. GRAHAM

DESIGNERS & MANUFACTURERS
OF GLASSWARE FOR PERFUMES
COSMETICS AND BATH SALTS

WOOD BROS. GLASS CO. LIMITED

(ESTABLISHED 1828)

BARNLEY . . . ENGLAND

"BARNETT FOR BOTTLES"



A New Idea in Counter Display!

The "Upright" Counter Jar only occupies 6" of counter space—there is no necessity to remove jar from Counter when serving.

The angle of display is 45° which makes goods easily accessible, at the same time ensuring most effective display.

This jar is of special interest to manufacturing Chemists, wholesale and manufacturing Confectioners, etc.

Investigate its possibilities. Full details on request.

We also supply all kind of bottles and solicit your kind enquiries. Wholesale only.

We are pleased to inform our Lancashire customers that we show each Tuesday at the Manchester Produce Exchange, Stand 2, Row A, Hanging Ditch Entrance (Right under the Clock)

JACK L. BARNETT LTD

18 BASINGHALL STREET,
LEEDS, 1

Phone : Leeds 28447

PRESSURE FILLING TANKS

for small aperture scent or hair-oil bottles.

6-gallon size complete with quick-filling orifice, safety valve, adjustable for various pressures, air inlet valve, and one, two, or more draw-off cocks, as required.

Also supplied on adjustable stand in copper or tinned steel and other sizes to order.

These are exceptionally strong articles and will stand 30 lbs. per square inch if necessary.

Also hand force-feed machines for filling and measuring up to 4 liquid ounces . . . £7.2.6

JOHN P. JACKSON & Co. Ltd.

Department C.D.,

18 Earle St. and 12/16 Rigby St.,
Liverpool.

Telephone : Central 724

MEDICAL SURGICAL SCIENTIFIC

Enquiries invited
Wholesale & Export
only, for

BRITISH MADE
GLASSWARE

Test Tubes,

Flat Bottom Packing

Tubes, with or without corks.

Syringes, Nasal Douches, Nipple

Shields, Surgical Instruments.

POULTEN, SELFE & LEE, LTD.

163 Bow Road, London, E.3, England

Phone :
East 6332-3

Corks & Stoppers

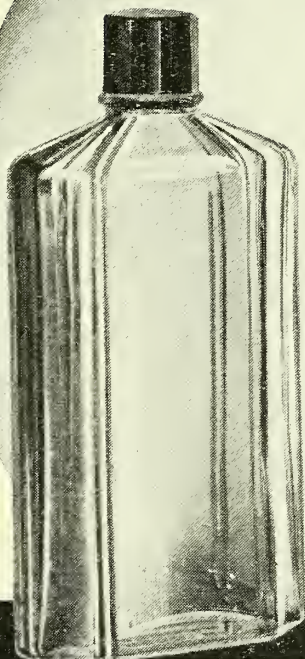
All
progressive
business
firms are
keen buyers.
Money saved in
buying is extra
capital. Nobody
to-day can afford to
buy other than in the best
market.

Mundet

Cork Products Ltd.

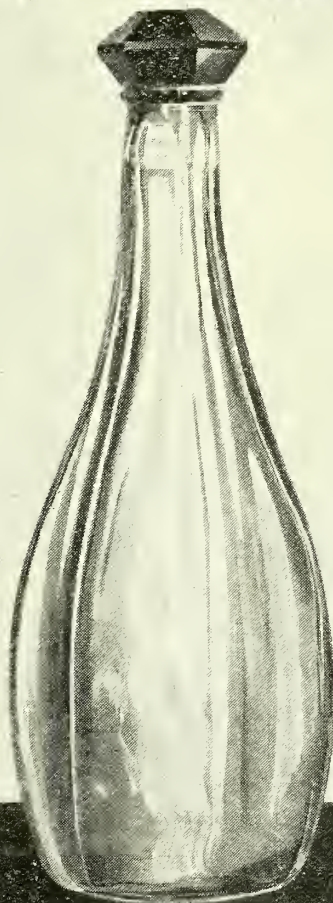
12/16 Abbey street
TOWER BRIDGE ROAD London S.E.1
Telegr. Mundetamp Bern London
Telephone: HOV 2043-4-5

3 New Year Arrivals



Beatty

Regd. No. 758534
4 oz. & 8 oz. capacity
Cap. Regd. No. 774021
Wide or Sprinkler Neck



Rhodes

Regd. No. 777437
9 oz. capacity
Cap Regd. No. 777437



Wellington

Regd. No. 773186
4 oz., 8 oz. & 16 oz. capacity.
Cap Regd. No. 774021
Wide or Sprinkler Neck

3 distinctive Toilet Bottles

that add charm and selling-power—English throughout

WHOLESALE ONLY—SEND FOR ILLUSTRATED LIST

THE INTERNATIONAL BOTTLE CO. LTD.

48 FORE STREET, LONDON, E.C.1

Phone : Met 6161 (4 lines)

'Grams: "Autrefois, Telex. London."

BEATSON, CLARK & CO.

LTD.

Chemical and Medical Glass Manufacturers

ROTHERHAM, YORKS.

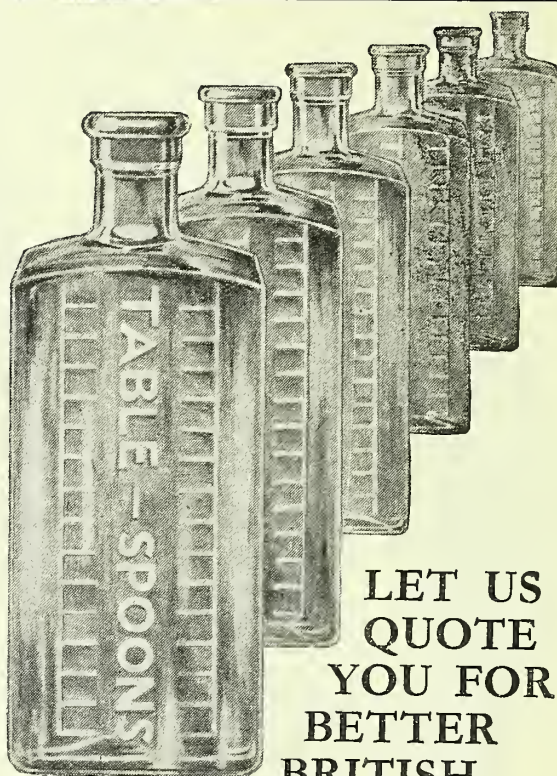
Telegrams - - - "BEATSON, ROTHERHAM."



**SHOP ROUNDS, OIL ROUNDS,
POISONS, SYRUPS & ETHERS**

WITH AND WITHOUT RECESS LABELS.

ESTABLISHED 1751.



**LET US
QUOTE
YOU FOR
BETTER
BRITISH
BOTTLES**

For eighty years or so we have been making bottles of every description, so we can claim to know something of Drug Trade Requirements.

Hand or machine made bottles of every type—sturdy and accurate and well finished—we can supply whatever you need.

Bottles of first class quality at highly competitive prices. It will pay you to ask us to quote for your next order.

ESTABLISHED 1851

**FREDERICK
HAMPSON**

PERSEVERANCE GLASS WORKS

SALFORD

Telephone :
Trafford Park 0814/5

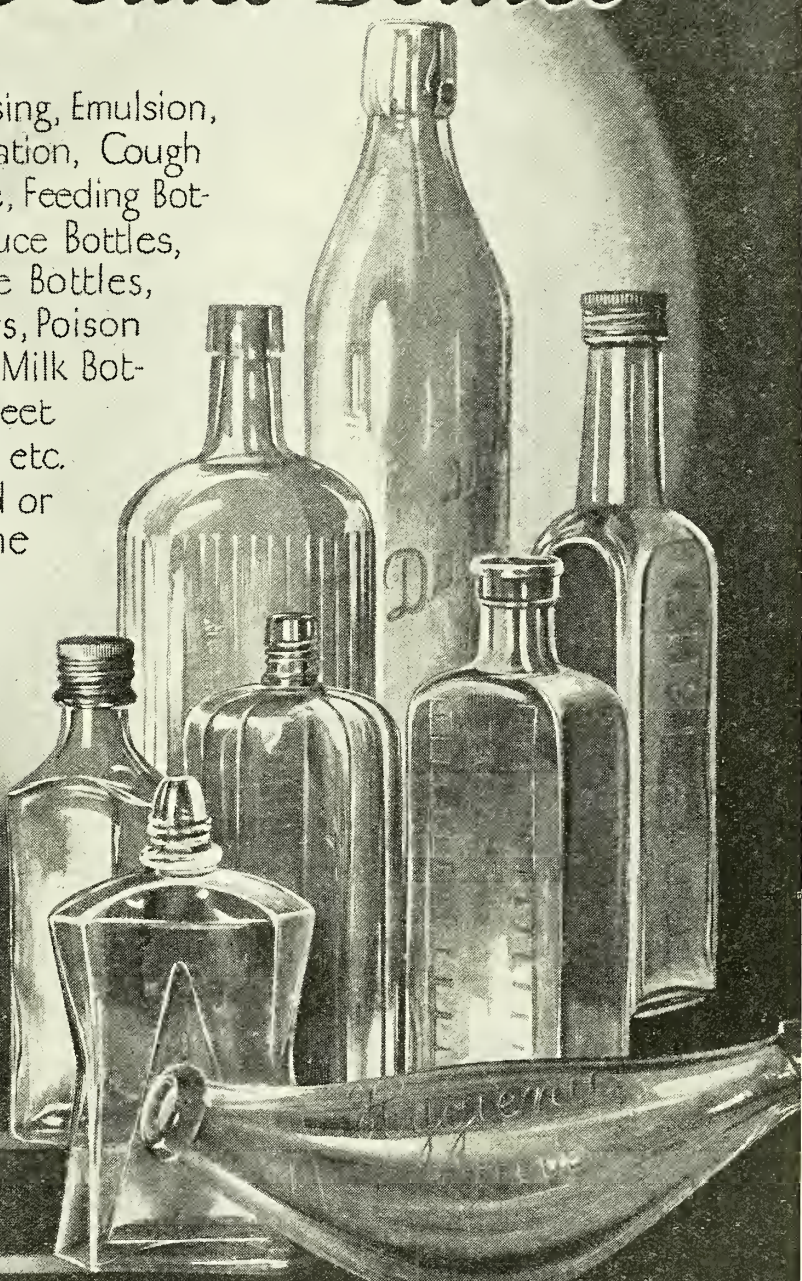
Telegrams :
"Attention" Salford.

for every description of
British Glass Bottles

Dispensing, Emulsion,
Embrocation, Cough
Mixture, Feeding Bot-
tles, Sauce Bottles,
Perfume Bottles,
Jam Jars, Poison
Bottles, Milk Bot-
tles, Sweet
Bottles etc.
By hand or
machine

WHOLESALE
ONLY

*Competitive prices — Prompt
delivery — Enquiries invited*



LAX and SHAW Ltd.

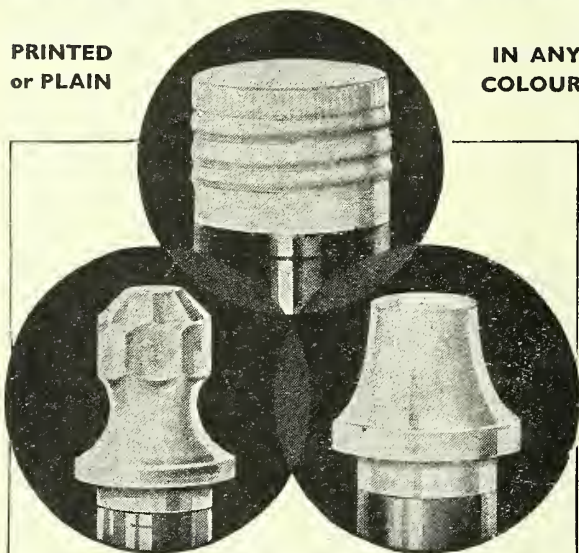
REGD OFFICE, ALBERT GLASS WORKS, HUNSLET, LEEDS.
THREE FACTORIES, ALBERT, CLARENCE AND DONISTHORPE

VISKAP

SELF-FIXING
BOTTLE CAPS

PRINTED
or PLAIN

IN ANY
COLOUR



PROTECTION

first, last and all the time is definitely assured when your product is sealed with a Viskap. Place a wet Viskap in position—let it dry—seals as it shrinks. Perfectly hygienic. Entirely British.

ALSO

MOULDINGS

OF ALL DESCRIPTIONS

FROM

Bakelite & Similar Materials

Send us your enquiries.

We have a reputation of many years of service and quality to keep up and are anxious to help you.

LET US ADVISE AND QUOTE YOU

VISCOSE DEVELOPMENT CO., LTD.,
WOLDHAM ROAD, BROMLEY, KENT

Telephone: Ravensbourne 4561

Whose Money?

WHEN mistakes, forgetfulness and temptation take toll of the takings . . . whose money is short?

Wholesalers, assistants, rent, rates, taxes and other overheads must be paid. Whenever cash leakages occur IT IS THE PROPRIETOR WHO LOSES.

That is why thousands of retailers throughout Britain declare that their adoption of a

National CASH REGISTER

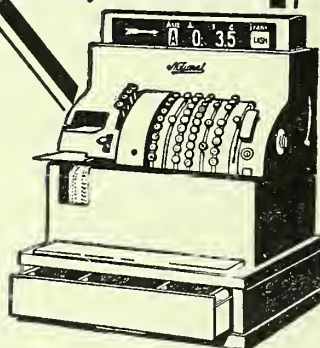
is the best investment they ever made.

"NATIONALS" embody every Cash Register feature of proved value. They not only reveal and stop profit leakages . . . they enable alert retailers to INCREASE profits, and to do it with much less work and worry. Full details about a "National" that will meet your needs exactly await your request. Write and tell us your problems to-day. Every machine is offered on easy terms and enquiry involves no obligation.

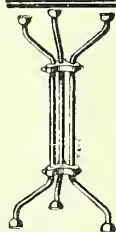
Address enquiry to:—

NATIONAL CASH REGISTER Co. Ltd.
225 Tottenham Ct. Rd., W.1

Phone: MUSEUM 9811



CHROMIUM PLATED DISPLAY FITTINGS—



No. CD/SF5116
Metal Display
Tripods with
Rubber Buffers
top and bottom.

**CHROMIUM
PLATED
finish**

9 in. 2/3 each 15 in. 4/9 each
12 in. 5/3 18 in. 5/9

Send for a copy of our full list of Shopfittings No CD 1350 free.

DUDLEY & CO. LTD., 451 Holloway Road, LONDON, N.7
City Showrooms: 65-66 Finsbury Street, E.C.2

Modern Display needs
Black Glass Ovals



No. CD/SF 5131 Black Glass Ovals.
Rounded and Polished edges.

Stocked in 3 sizes only:

14 1/2 x 10 in.	-	-	4/- each
16 x 12 in.	-	-	5/9
20 x 15 in.	-	-	7/6

Armstrong's make the world's finest corks

CONSISTENT — UNIFORM — RELIABLE

Write for the Armstrong Cork String and quality samples.



ARMSTRONG CORK Co. Ltd.
Aldwych House, Aldwych, London, W.C.2

Telephone: Holborn 7503 (5 lines)

FULL PRESSURE ADVERTISING

for BOB MARTIN'S CONDITION
POWDERS means

FULL PRESSURE SALES

for PHARMACISTS THIS YEAR

BETWEEN now and March more than 290 million advertisements for Bob Martin's Condition Powders will appear in the leading national daily and provincial papers and popular magazines. These advertisements have been actually booked. Equally heavy advertising will follow throughout the year. We promise you this.

The constant demand for Bob Martin's Condition Powders created will mean **steady sales** this year, steadily **increasing**. For remember, one person in every three passing your pharmacy is a dog owner. **One person in every three is a buyer of Bob Martin's Condition Powders from YOU if he knows that you sell them.**

Why not, therefore, take advantage of the facilities we offer for linking up your own Pharmacy with Bob Martin advertising?

With the present, as with every Bob Martin advertising campaign, attractive showcards, cut-outs and window displays have been designed to tie up with the advertising. The value of these displays has been proved times out of number by pharmacists all over the Kingdom.

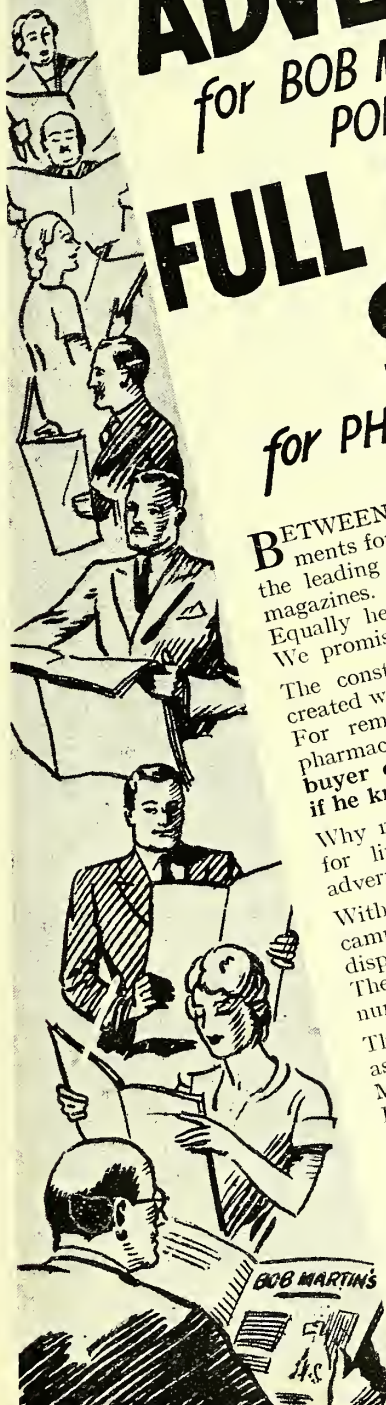
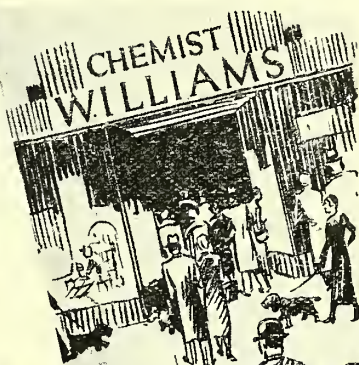
The display material available reaches the same high standard as always. Send for a supply now. Make a feature of a Bob Martin display in your window and convert the full pressure Bob Martin advertising into full pressure sales this year.

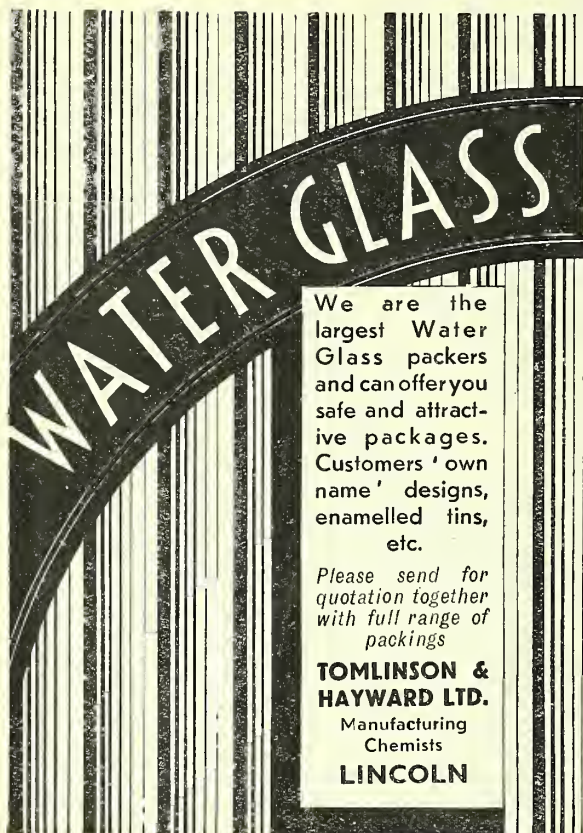
Send for Bob Martin Display Material Now

Special Bob Martin Displays linking up with current advertising are always available, and if you drop a postcard to Southport to-day you will receive the newest Display Material by return. In five minutes you can make a display which will **double your sales** of Bob Martin's preparations. If you would like to receive Display Material as soon as it is issued, please ask to be put on the **Bob Martin Display List**.

BOB MARTIN LTD., SOUTHPORT, ENG.

Dog Food and Medicine
Manufacturers since 1892





We are the largest Water Glass packers and can offer you safe and attractive packages. Customers 'own name' designs, enamelled tins, etc.

Please send for quotation together with full range of packings

TOMLINSON & HAYWARD LTD.
Manufacturing Chemists
LINCOLN

Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected)	Net Wholesale Price
Virus for Rats and Mice, single tube, 2/-	15/- per doz.
3 tubes, 5/-	
Virus for Mice only .. single tube, 1/6	9/-
3 tubes, 3/-	

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danzysz Virus in Liquid Form

Retail Price	Wholesale Price
Quart Bottles 6/- each	4/6 each
Pint " 4/6 "	3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33% cash with order.

Retail	Monthly A/c	Cash with Order
1/2 gall. tins .. 10/-	7/6	6/8
1 " " " 18/-	13/6	12/-
5 " " " 80/-	60/-	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.

Retail Prices (Protected)	Wholesale Prices per doz
In tins 3d.	In boxes of 1 doz. 2/1
" 6d.	" 1 " 3/8
" 1/-	" 1 " 7/3
" 2/6	" 1 " 18/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

HALLER LABORATORIES, LTD.

325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London." Telephone: Hop 2717

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S

Great

Protected Prices
(P.A.T.A.)

Remedies for the Horse

HARVEY'S



Koppos Powder.
Parasicide.
Thrush Specific.
Hoof Ointment.
Skin Specific for Dogs.

Of all the leading Druggists' Sundries Houses
HARVEY & COMPANY, Ltd., Dublin

It's worth your while to stock and display DRUMMER DYES

because they are always
in great demand in these
days of enforced economy

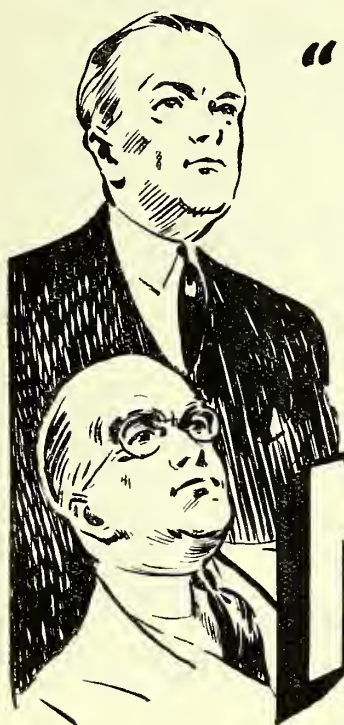
safe
easy



and
sure

EDGE'S

BOLTON



"— use only "

Director : "What is the matter with our electric light these days? We seem to have less light and to pay more for current than ever before."

Manager : "I'm afraid we made the mistake of installing 'cheap' lamps at the beginning of the winter. They lose light very quickly and replacements have been unduly heavy. We shall not make the same mistake again, but in future will use only

MAZDA LAMPS



**WITH THE WONDERFUL
NON-SAG FILAMENT**

MADE IN ENGLAND FROM BRITISH MATERIALS.

3447

THE BRITISH THOMSON-HOUSTON COMPANY, LTD.

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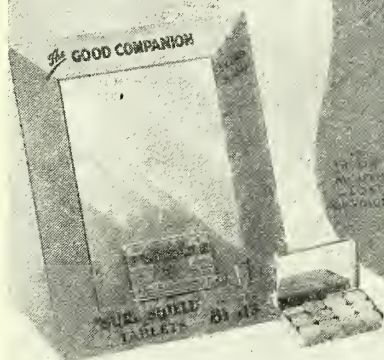
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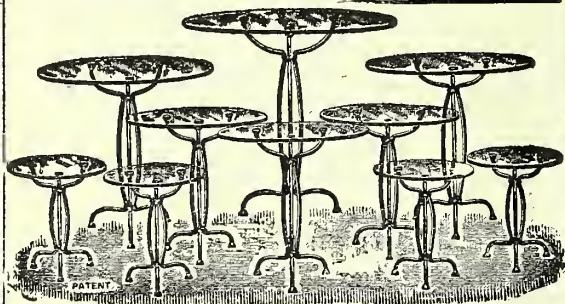
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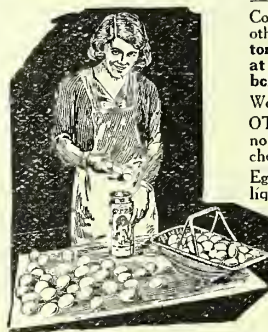
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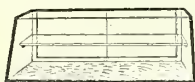
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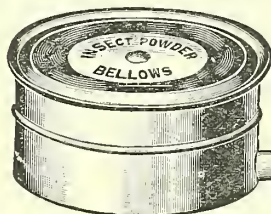
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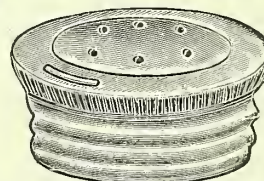
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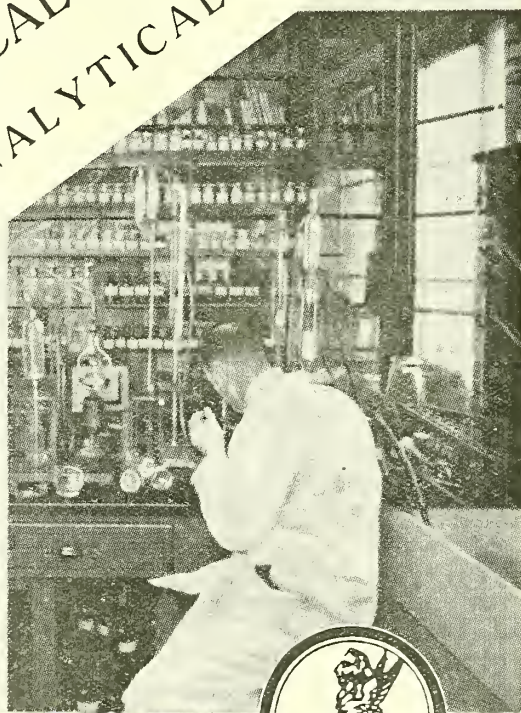


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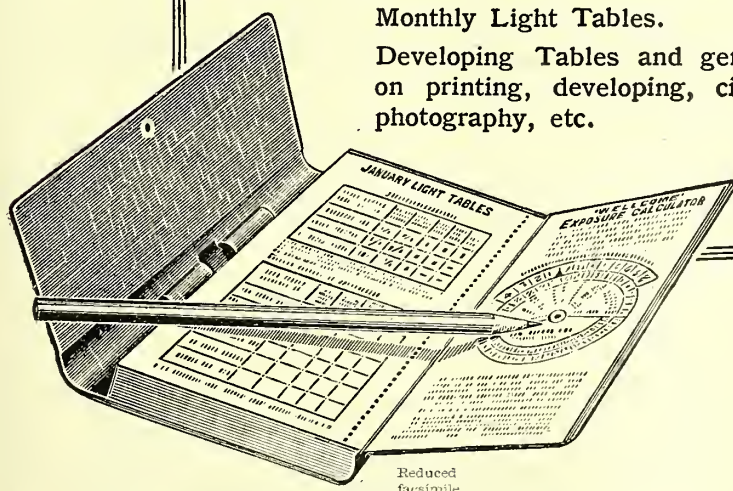
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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

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News of the Week

Key Industry Duty—Carbolic Acid (Synthetic)

The Board of Trade give notice that they have received an application under Section 10 (5) of the Finance Act, 1926, for the exemption of carbolic acid (synthetic) from liability to duty under Part I of the Safeguarding of Industries Act, 1921 (Key Industries). Communications relating to this application should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, London, S.W.1, on or before February 24 next.

Contracts

The following tenders have been accepted by the bodies named:—

Lichfield City Council.—Boots, Ltd., drugs, etc.
Stoke-on-Trent City Council.—Frank Edwards, Ltd., chemists, Cardiff, drugs.

Manchester

Owing to the prevailing influenza epidemic in Manchester and the district, many pharmacists have been kept hard at it in order to cope with the increased dispensing and the sale of remedies.

Members of the Manchester and District Pharmacists' Golfing Society received a great shock when they learned from THE CHEMIST AND DRUGGIST of the passing of Mr. Cole, of Liverpool, whom they had often met and played against in the inter-city contests.

Mr. J. H. Franklin, chairman of the Manchester, Salford, and District Branch of the Pharmaceutical Society, left this country on January 24 on a trip to the West Indies in the hope that it will lead to an improvement in his health. Mr. Franklin will accordingly be unable to answer any correspondence for the next six weeks.

Sheffield

During the influenza epidemic Mr. G. K. Greenstreet is offering a day-and-night dispensing service. Boots, Ltd., are temporarily remaining open at their Haymarket branch until 11 p.m.

A presentation to commemorate his election to the City Council has been made to Mr. H. M. Burdall by the staff of Burdall's, Ltd., manufacturing chemists, of which business the recipient is the governing director.

Miscellaneous

POISON-LICENCE APPLICATION.—Mr. W. Wheeler (Pennell & Sons, Doncaster) has applied for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

INQUEST.—At Hoylake, recently, an inquest was held on the body of Daisy Cottom, aged twenty-six. The pathologist to Chester Infirmary stated in evidence that the stomach contained 250 gr. of aspirin, to which drug death was due. An open verdict was recorded.

HOCKEY.—The Ipswich Chemists' Hockey Club (mixed team) met the Severalls Institution Club at Colchester on January 10. The chemists obtained a lead of 4—2 in the earlier part of the game, but Severalls secured three more goals, so that the game finished against the chemists with a score of 5—4.

IN THE COURTS.—At Bow Street Police Court, London, on January 21, Arthur Flatman (61), Acton Street, W.C.1, was fined £10 for being in unauthorised possession of nineteen tablets of cocaine.—At Bolton, recently, Ida Flitcroft, Bury Road, was fined 4s. for having sold as "Finest Table Vinegar" a diluted acetic acid with colouring matter.

CHELSEA POLYTECHNIC PHARMACY ASSOCIATION.—The annual reunion dance of Chelsea Polytechnic Pharmacy Association will be held at Slater's Restaurant,

Kensington High Street, W., on February 15, from 7.30 till 11 p.m. Tickets, 2s. 6d. each (not including refreshments) may be obtained from the secretaries (Messrs. W. F. Pickup and C. A. Long), Mr. Morton, and members of the staff at Chelsea Polytechnic, Manresa Road, S.W.3.

Scottish Notes

Brevities

Mr. William Bruce, chemist and druggist, has been appointed president of the Larkhall Merchants' Association.

"Cynics may belittle the medicine bottle," writes a correspondent, "but probably at no time in the history of pharmacy has more medicine been consumed (with beneficial effects) than during the past month."

Irish Notes

Brevities

Sir Thomas McMullan, member of the Council of the Pharmaceutical Society of Northern Ireland, has been appointed a life governor of the Royal Victoria Hospital, Belfast.

Mr. J. H. Miles, representing C. R. Harker, Stagg & Morgan (Branch of National Drug Industries, Ltd.), in the Irish Free State and Northern Ireland, has removed to 5 Merlyn Park, Ballsbridge, Dublin.

About 100 former colleagues of Mr. John Abernethy in the service of Thomas McMullan & Co., Ltd., wholesale druggists, Belfast, met on January 20, and presented him with a token of their esteem on the occasion of his retirement. Mr. J. Gibson, who presided at the ceremony and made the presentation, said Mr. Abernethy entered the service of the company in 1887. Messrs. Thomas Montgomery, Frank Kinney, Thomas Macartney, and F. J. Johnston also spoke appreciatively of the services of Mr. Abernethy and of the esteem in which he was held.

The Executive Council of the Irish Free State has issued the Emergency Imposition of Duties (No. 5) Order, 1932 (Saorstát Éireann S.R. & O., 1932, No. 112; 3d.). This Order, dated December 23, 1932, varies the duty on imported motor-cars and certain other articles, and provides conditions of exemption from duty on re-importation. Another Order (No. 1110, 1932), dated December 23, revokes previous Orders as follows:—

Short Title	Extent of Revocation
Emergency Imposition of Duties (No. 1) Order, 1932	Paragraphs 3, 4, 5.
Emergency Imposition of Duties (No. 2) Order, 1932	The whole Order.
Emergency Imposition of Duties (No. 3) Order, 1932	The whole Order.
Emergency Imposition of Duties (No. 1) Order, 1932 (Amendment) Order, 1932	The whole Order.

Business Changes

MR. ARTHUR A. KINTISH, chemist and druggist, has opened a pharmacy at 137 Great Clowes Street, Lower Broughton, Salford.

MR. LEONARD STEVENSON, chemist and druggist, has purchased the business of Brooks' Drug Stores, High Street, Deptford, London, S.E.8.

THE telephone numbers of H. W. GRAESSER-THOMAS, 49 Leadenhall Street, London, E.C.3, have received the addition Monument 3011 and 3111.

THE telephone number and telegraphic address of THE BOEHRINGER CORPORATION (LONDON) LTD., are now Royal 1182 and Ringacorp, Ald, London.

MAY, ROBERTS & CO., LTD., druggists' sundriesmen, 7-13 Clerkenwell Road, London, E.C.1, have acquired the business of William Edwards & Sons, 14-18 Nile Street, City Road, London, N.1.

Wills

MR. ROWLAND ALFRED METCALF, 5 Norfolk Street, King's Lynn, Norfolk, chemist and druggist, Mayor of King's Lynn in 1929, who died on June 28 last, aged seventy-two, left estate gross value £4,838 15s., with net personalty £1,691.

MR. ALFRED JOHN BLYTH SHICKIE, 3 Lily Bank, Hereford Street, Sale, Cheshire, a director of Dunn Brothers (Successors) Ltd., chemical merchants, Manchester, who died on November 1 last, aged 72, left estate gross value £1,154, with net personalty £1,115.

MR. JAMES MICHIE, 3 Alma Road, Monkstown, Dublin, and formerly of 22 Main Street, Blackrock, chemist and druggist, a past-president of the Pharmaceutical Society of Ireland, died on August 20 last, leaving personal property valued £15,997 in England and the Irish Free State.

MRS. ELIZABETH ADAMSON, 22 Cross Street, Stratford, E., who died on December 3 last, aged seventy-nine, widow first of Will Crooks, P.C., of Poplar, for some years Labour M.P. for Woolwich, and secondly of W. Adamson, pharmacist, left estate gross value £11,650, with net personalty £11,309.

DR. KARL EMIL MARKEL, Ph.D., 20 Queen's Gate Terrace, Kensington, London, S.W., for some years technical director of Joseph Crosfield & Sons, Ltd., Warrington, soap manufacturers, who died on May 13 last, aged seventy-two, left property gross value £83,563, with net personalty £77,037.

Gazette

Partnerships Dissolved

FARQUHARSON, R., and WATSON, JEMIMA G., 6 Gilbert Road, Belvedere, Kent, chemists and druggists, under the style of Farquharson & Watson.

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION.

DODRIDGE, W. J., 47 Victoria Road, and lately at 107 Portsmouth Road, Woolston, Southampton, chemist and druggist.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

Wednesday, February 1

West Middlesex Chemists' Association and Branch of the Pharmaceutical Society, Hotel Metropole, Northumberland Avenue, London, W.C.2, at 6.30 p.m. for 7 p.m. Annual dinner and dance.

Birkenhead and Wirral Pharmacists' Association, Woodside Hotel, at 8.30 p.m. Mr. W. H. Clubb (Liverpool) on "The National Publicity Association Perplexities."

Thursday, February 2

Manchester Pharmaceutical Association and Manchester, Salford and District Branch of the Pharmaceutical Society, Victoria Hotel, Deansgate, at 8.30 p.m. Joint meeting. Mr. H. Haworth (superintendent of the Manchester and Salford Pricing Bureaux) on "Points in N.H.I. Dispensing."

Pharmaceutical Society of Great Britain, North Staffordshire Branch, King's Hall, Stoke-on-Trent. Annual dance in aid of the Society's Benevolent Fund. Tickets, 4s. 6d. each, from T. C. Cornwell, 14 Piccadilly, Hanley.

Pharmaceutical Society of Great Britain, Sheffield and District Branch, City Hall, Sheffield, at 7.30 p.m. Pharmacy ball and bridge drive. Tickets 4s., single; 7s. 6d., double, from C. Piper, 642 Staniforth Road, Darnall, Sheffield.

Saturday, February 4

Anti-Gas Services, Artists' Rifles Headquarters, Dukes Road, Enston Road, London, W.C.1, at 7 for 7.30 p.m. Reunion dinner. Tickets, 6s. 6d. each, from H. W. Lucas, 47 Kynaston Crescent, Thornton Heath.

Notes on Siam

SIAM, hitherto with the envious reputation of the most peaceful country in the world, has been the scene of a revolution. Unlike most countries, however, this has been accomplished without bloodshed and the horrors associated, as a rule, with such events. The reconstruction has naturally interfered with business but great hopes are held out by the new government, and if they are as businesslike in managing the affairs of the country as they were in instituting a new *régime* then a prosperous era will soon dawn for Siam.

New Taxation

Owing to a depleted revenue it was necessary for the late government to institute new taxation. Import duties have risen from 5 per cent. to a scale which ranges from that figure to 50 per cent. The duties which concern pharmacists are as follows:—Alcohol, ticals 3.50 per litre with a higher rate for perfumery; cameras, photographic materials, toilet articles, cosmetics, dentifrices and toilet soaps, 33 per cent.; surgical and scientific instruments, spectacles, trial cases, test charts, 5 per cent., but lenses and glass blanks for making lenses

pay 20 per cent.; drugs and chemicals, 20 per cent. The tical (sterling par value 21.82 pence) remained linked to gold when England went off the gold standard. This to some extent counteracted the rise in the price of imported goods which the new duties would have affected. Recently, however, Siam decided that it was a mistake to keep to gold and again linked herself with sterling. This has not caused much rise in prices, in fact a number of commodities have remained the same, due possibly to an overstocked market and a smaller demand.

Wholesale Business

Many pharmacies in Siam do a considerable wholesale business with up-country traders and government departments. Wholesale prices for cash are frequently cut fine and it is sometimes possible to purchase for cash below landed cost. Under the new trade mark law registrations are proceeding slowly. Although makers of branded articles have been protected in the past, the new law will probably render better protection and it is advisable for manufacturers to register their trade marks of goods sold in Siam.—A. H. H. (32/6).

Topical Reflections

By Xrayser

What a Compliment

was paid to pharmacy by Mr. Wilfred Trotter at the close of his lecture delivered before the Guild of Public Pharmacists (*C. & D.*, January 21, p. 64)! After pointing out that medicine has, up to the present, almost wholly avoided the burden of measurement, and that it is without precise data, thus differing from science in general, he remarked that the only branch of medicine which has always and with increasing intentness and success pursued the ideal of exact measurement is pharmacy. This came as the conclusion to one of the most inspiring and stimulating addresses which I have enjoyed reading for many a long day. The public pharmacists were extremely fortunate in securing as a lecturer this eminent surgeon, whose graphic illustrations of his text were both apt and entertaining. The importance of little things was surely never rendered more manifest than by the fascinating account of Lord Rayleigh's identification of Henry Cavendish's small bubble of unabsorbed air, with all that has been consequent upon this triumph of exact measurement. But the application of this general lesson to departments of knowledge in which we are more especially concerned was equally illuminating, the more particularly because it emphasised our inadequate acquaintance with the ultimate causation of disease. Determination of this is, as Mr. Trotter rightly indicated, the fundamental activity of medicine, and it is well to be reminded that we are still far from the acquirement of such a secure foundation of exact and measured data as will enable medical practitioners to proceed with confidence in the treatment of causes rather than symptoms.

Talking about Poisons,

Mr. G. Roche Lynch was able to treat his subject in a manner that possessed a distinct air of novelty, when he showed how particular poisons act and why they behave differently when taken under different conditions (p. 68). An important point to observe is that much more serious mischief tends to result when many poisons get inside the body than while they remain in the alimentary canal, which is physiologically outside the body. Manganese furnished Mr. Lynch with an excellent illustration of this. What was stated by the

lecturer about the effects of arsenic, strychnine and other poisons was full of interest to pharmacists, and I should advise your readers to make a careful note of the points to be borne in mind when the question of diagnosis of poisoning is being considered. Knowledge of those points may often help a pharmacist to be of service in cases of actual or suspected poisoning. Again, it will be noted how intelligent study of the action of poisons requires that knowledge of human physiology by pharmacists which is so frequently being insisted upon nowadays, Mr. Lynch furnishing useful evidence of the desirability of our possessing such knowledge. Incidentally, it interested me to read what he said about the proposed Pharmacy and Poisons Bill. Coming from a highly-placed official of the Home Office, it seems particularly significant that apprehension should be admitted lest some of the provisions of that measure may result in placing a number of powerful poisons in the hands of untrained and inexperienced distributors who in turn may render them easier of access to the public. The case of pharmacists against relaxation of restrictions could hardly be more pertinently put.

Words of Wisdom

emanated from Mr. A. O. Bentley when recently addressing the chemists of North-East Lancashire on the subject of practical pharmacy for pharmacists (p. 70). Though he gave it as his opinion only, he was undoubtedly stating nothing but fact when he remarked that it would be impossible to secure legislation to restrict the business of the chemist and druggist to the qualified man until it could be shown that we are actually engaged in skilled work of a kind that cannot safely be left in the hands of untrained persons. In other words, it is not enough that we have been specially trained and examined to prove our fitness to undertake pharmaceutical operations; if we desire to have the performance of our peculiar functions restricted to those on our Register, we must be in a position to show that we ourselves actually do what we would have unqualified persons prohibited from doing. Insistence upon this point is very necessary at the present time, when there is such a marked tendency for officinal pharmacists to delegate their peculiar functions to others who may or may not be equally qualified.

Legal Reports

Spirit of Nitrous Ether.—At Leeds Police Court, on January 24, Mr. Joe Taylor, chemist and druggist, Meadow Lane, was summoned under Section 2 of the Food and Drugs (Adulteration) Act, 1928, for selling sweet spirit of nitre deficient in ethyl nitrite. Mr. A. F. Greenwood, prosecuting, said that on analysis the spirit was found to contain 1.15 per cent. of ethyl nitrite, which was the equivalent of 8 per cent. below the minimum required by the British Pharmacopœia, 1932. Inspector Cummings, cross-examined by Mr. H. B. Simpson, defending, said that the spirit in each bottle only filled one-third of the bottle. Another inspector said that after the first sample had been found deficient he (witness) called and took a sample from an unopened bottle, and this was well above the minimum. Mr. William Johnston, Ph.C., stated in evidence that he had had fifty-nine years' experience of pharmacy. There would be an appreciable loss in the division of the samples. Many years ago, when the weather was very hot, he made a division of samples as an inspector would do, and found that in the short time he spent dividing the sample ethyl nitrite was lost to the extent of 17 per cent. The loss in cold weather would be from 5 to 6 per cent. This loss, together with the loss due to volatilisation in the air space above the liquid in the sample bottle, and the loss when dividing the samples, might easily account for the 8 per cent. deficiency. The chairman of the Bench, after remarking that they believed Mr. Taylor had no criminal intent, but thought he had been very careless, dismissed the case on payment of 25s. costs.

Motion Adjourned.—In the Chancery Division of the High Court, London, on January 20, a motion by Irving's Yeast-Vite, Ltd., against Mr. Frederick Alexander Horsenail, Canterbury, came before Mr. Justice Bennett. Mr. Kenneth Swan, for the plaintiff company, said they were asking for an interim injunction to restrain infringement of the trade mark "Yeast-Vite," and from passing off a pharmaceutical preparation not made by the plaintiff company as and for Yeast-Vite. The defendant did not appear, but had written to the plaintiff company's solicitors that he would consent to a perpetual injunction. The alleged infringement involved the use of the trade mark on or in connection with the defendant's goods, and the alleged passing off was that the defendant had published printed matter to the effect that his goods and Yeast-Vite tablets were made according to the same formula. Mr. Swan read evidence that the defendant offered for sale bottles bearing the label "Yeast Tablets. A substitute for Yeast-Vite," and that an analysis showed the defendant's yeast tablets were deficient in certain ingredients contained in the Yeast-Vite tablets. His lordship asked if the label referred to was an infringement, as the defendant did not seem to have used the trade mark to describe his goods. Mr. Swan said he could only describe his goods by invoking the plaintiff company's trade mark. His lordship said he would be prepared to grant an interim injunction to restrain passing off, but as to infringement he was not satisfied. Mr. Swan said he would like to be able to look up the legal authorities. His lordship adjourned the motion.

Illegal Sale of Poison.—In Bloomsbury County Court, on January 19, the Council of the Pharmaceutical Society sued B. Barnato, dentist, Soho Street, W.1, to recover the sum of £5 as penalty for an illegal sale of Potter's Asthma Cure. Mr. H. Glyn-Jones, barrister, on behalf of the Society, said the Pharmacy Act, 1868, provided that no person who was not a registered pharmaceutical chemist or chemist and druggist was allowed to sell a poison included in the Schedule. The exemptions in the Act provided that a properly qualified apothecary and a duly qualified medical practitioner would be allowed to sell poisons. A dental practitioner was not a medical practitioner within the meaning of the Act. Evidence of purchase having been given, Mr. C. E. Corfield, B.Sc.,

F.I.C., Ph.C. (Harrison & Self), said he received the tin of Potter's Cure. He found it to contain powdered lobelia and stramonium, two vegetable poisons containing poisonous alkaloids to the extent of 0.17 per cent., which was an appreciable quantity. The defendant said that a herb could be extracted in two ways, one by alcohol and one by water. This was a powder, and not to be taken but inhaled, and did not therefore come within the Act, and it was absurd to prosecute him. Judge Hill Kelly: It is idle to argue that the law of the land is absurd. Giving evidence on his own behalf, the defendant said he was a registered dentist, and produced his certificate. He went on to say that if he was entrusted with dangerous poisons of every description as a dentist, he did not think he should be summoned for selling a powder which was not scheduled as a dangerous drug until recently. Judge Hill Kelly: All that is beside the point and a waste of time. You are not applying yourself to the question and the charge made against you. The defendant said it was not until 1925 that the substance was regarded as a poison. If he lost this action, he could not afford to pay, and he was leaving himself entirely in the hands of the Court. "I am working as a manager," he continued, "and these people are trying to drive me out of business, which is unfair." Judge Hill Kelly: That observation is highly unfair and you ought not to have made it. The Pharmaceutical Society of this country is a highly respected body, and you are casting reflections on their *bona fides*. Giving judgment, Judge Hill Kelly said the case seemed sufficiently clear; there would have to be judgment for the plaintiffs for the amount claimed, and costs. The defendant offered 5s. a month, but Mr. Glyn-Jones said the defendant had been paying penalties in the past. The judge said he would make no instalment order.

Interim Injunction Granted.—In the Chancery Division of the High Court, London, on January 24, before Mr. Justice Luxmoore, Mr. Trevor Watson, K.C., on behalf of plaintiffs in an action by Edwards Harlene, Ltd., against Arline, Ltd., moved for an interlocutory injunction to restrain the defendant company from infringing the plaintiffs' trade mark and from selling preparations for the hair, or similar toilet articles, as Arline so as to pass them off as the plaintiffs' goods, and from carrying on business under any name which included the word Arline so as to lead to the belief that defendants' business was connected with that of the plaintiffs. The application was opposed by Mr. Gorst for the defendants. Mr. Watson said the plaintiffs were well known as the proprietors of a preparation for the hair and as makers of a considerable number of other toilet articles known as Harlene. A director of the defendant company was a lady whose full name was Mrs. Arline Constance Hedge, who, from 1925, carried on business as Madame Arline. She then had a beauty parlour. Later she began selling various preparations, but the name Arline was confined to the business and was not used as descriptive of the goods. Subsequently, however, the name became increasingly used, not merely as an indication of the business but also as the name of the preparation sold. The plaintiffs alleged that this would lead to confusion and passing off. The culminating point was reached last year when a company called Arline, Ltd., was formed. There was also pending an action by the same plaintiffs against Mrs. Hedge. His lordship said he could not prevent the defendant company from carrying on business under the name Arline, Ltd. Mr. Watson said the plaintiffs were only asking to restrain the defendant company from carrying on business under the name Arline so as to lead to the belief that their business was connected with the plaintiffs. His lordship said that if he granted an injunction, it would have to be limited so that it would not prevent the defendant company from using its name of Arline, Ltd. Mr. Gorst read an affidavit by Mrs. Hedge to the effect that the pronunciation of her name Arline did not rhyme with Harlene. She also stated that she obtained the formula for her chamomile golden hair wash

in Cairo, and she perfected it in 1922. She was not in the least anxious there should be confusion, and was willing to give an undertaking that she had no connection with Edwards Harlene, Ltd. His lordship said it would more likely meet with the plaintiffs' approval if she changed the name of her company. Mr. Gorst replied that defendants had spent some thousands of pounds on advertising. His lordship said he could not decide a question of fact on an interlocutory motion. Mr. Gorst said there was a question of fact as to whether defendants were infringing the plaintiffs' trade mark. The defendants would undertake not to sell anything as Arline. Mr. Watson said the plaintiffs would accept an undertaking by the defendants not to use the name Arline in proximity to the articles sold and not otherwise than as part of the name of the company. Mr. Gorst objected to an undertaking in that form, and said the defendants would prefer to submit to an injunction restraining infringement of the plaintiffs' trade mark pending the trial of the action. There would be a counter-claim for concurrent user of the mark Arline. His lordship said he would grant an injunction against the defendants restraining them from infringing the plaintiffs' trade mark, and he would give directions for a speedy trial of both actions.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

A. STEPHEN LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, opticians, etc. R.O.: 70, Prescott Road, Liverpool.

D. T. BLUNDEN, LTD. (P.C.).—Capital £500. Objects: To carry on the business of wholesale and retail chemists and druggists, etc. R.O.: 314 Stafford Road, Wallington, Surrey.

H. E. STEVENSON & COMPANY LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, drysalts, etc. R.O.: 10, Pancras Lane, Queen Victoria Street, E.C.4.

LIPTON'S GERMICIDE COMPANY, LTD. (P.C.).—Capital £600. Objects: To carry on the business of manufacturing, experimental, and general chemists, manufacturers, importers, exporters, and refiners of germicide, essences, coal tar products, etc. Solicitors: J. H. Lambert & Co., 116a High Road, Wembley.

POND'S EXTRACT COMPANY, LTD. (Public Company).—Capital £1,250. Objects: To acquire the businesses carried on in the British Isles, the Irish Free State, Europe, Egypt, Syria, and Palestine by Pond's Extract Company, and to carry on the business of chemists, druggists, etc. Solicitors: Slaughter & May, 18 Austin Friars, E.C.2.

MONSOL, LTD. (P.C.).—Capital £150. Objects: To acquire the business of a manufacturer of and dealer in the products known as "Monsol" and "Anasol" now carried on by The Mond Staffordshire Refining Co., Ltd., at Dudley Port, Tipton, Staffs, and to carry on the business of wholesale, retail, and manufacturing druggists, chemists, etc. Solicitors: Holmes Son & Pott, Capel House, E.C.

A. MILLAR & Co., LTD., DUBLIN.—Report for the year ended October 31, 1932, shows the net profit, after making provision for salaries, repairs, directors' fees, bad debts, etc., and including £6,948 5s. brought forward, was £11,555 1s. An *interim* dividend at the rate of five per cent. per annum on the preference shares was paid last June, less tax, and a final dividend on the preference shares at the rate of five per cent., less tax, was paid last December. The balance of £9,211 6s. was allocated as follows: dividend on the ordinary shares at the rate of two per cent., less tax; £2,343 15s.; carried forward, £6,867 11s.

Voluntary Liquidation

Wilson Braddock, Limited.—9 Trysull Road, Bradmore, near Wolverhampton, chemists and druggists. The statutory meeting of the creditors was held recently at the company's premises. The statement of affairs disclosed ranking liabilities of £1,365 9s. 5d., made up as follows:—Unsecured creditors, £1,343 11s. 1d.; rent, electricity, etc., £14 18s. 4d., and partly secured creditor £7. The total claim of the latter was £12, but securities to the value of £5 were held. In addition, there were fully secured creditors for £26 4s. 10d. The assets consisted of stock £175 4s. 8d., valued at £100; trade utensils, fixtures and fittings £50, and book debts £10, making a total of £160. After allowing £6 8s. 6d. for preferential claims, the net assets were £153 11s. 6d., or a deficiency of £1,211 17s. 11d. The accounts showed that during the two years to October, 1929, the turnover was £2,800, with a net profit of £233. In the following year the sales were £1,438, the net profit being £300, but in the next year the net profit was £260, on a turnover of £1,400. It was stated that the accounts had always shown a net profit. In 1930 the drawings of the two directors aggregated £349, whilst in 1931 they amounted to £335. It was pointed out that the ranking liabilities included cash claims of approximately £900. The opinion was expressed that as the company had borrowed in excess of its issued capital without first passing a resolution empowering it to do so, the cash claims would automatically be reduced, and under those circumstances the total liabilities would be in the neighbourhood of £800. Resolutions were passed confirming the voluntary liquidation of the company, with Mr. C. H. Piper, Wolverhampton, as liquidator, together with a committee of three of the creditors.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1933, p. 329.

(From "The Trade Marks Journal," January 18, 1933.)

"TEENOX"; for a veterinary preparation (2). By Chapman & Son (Grimsby), Ltd., 235 Cleethorpe Road, Grimsby. 536,285.

"EUDOX"; for disinfectants and insecticides (2). By Zonol, Ltd., 59/60 Old Bailey, London, E.C.4. 537,370.

"PILOT" on circular design of head of man wearing Sou-wester; for all goods (3). By Beiersdorf, Ltd., Bessemer Road, Welwyn Garden City, Hertfordshire. 532,713; 534,829. (Associated.)

"VIN-SI-CO"; for medicated wines for sale within a radius of eighty miles from the Head Post Office in Bristol. By Sigrist & Co., Ltd., 56 High Street, Hanham, Bristol. 533,012.

"GUYTONIA"; for medicines (3). By Guy's Tonic, Ltd., 272 South Lambeth Road, London, S.W.8. 534,649. (Associated.)

"LESWILAX"; for medicinal chemicals (3). By G. R. Williamson, 428 Foleshill Road, Great Heath, Coventry. 536,762. (Associated.)

"STEMFOS"; for medicinal chemicals (3). By Stemco, Ltd., 128/132 Albert Street, Camden Town, N.W.1. 537,026. (Associated.)

"BAYGILO"; for embrocation (3). By Bayliss and Gilks, 52 Gordon Road, Southall, Middlesex. 537,413.

"DULCOMEL"; for preparations for coughs (3). By J. Cameron & Son, 4 Greig Street, Inverness. 537,425.

"SALDOMIN"; for all goods (3). By Radicura-Radiowell, Ltd., 53 Victoria Street, London, S.W.1. 537,494.

"OZOIN"; for perfumery, etc. (48). By International Chemical Co., Ltd., Braydon Road, London, N.16. 536,470. (Associated.)

APPLICATION AMENDMENT.

According to "The Trade Marks Journal" of January 18, 1933, the specification for "ANDREXINE" in Class 3, No. 524,419, by Laboratoires des Produits Scientia, has been amended to "An aqueous extract of male mammary genital glands prepared for use in medicine."

Pharmaceutical Society of Northern Ireland

Council Meeting

THE January meeting of the Council was held on January 20, the president (Mr. R. I. Edwards) in the chair. There were present also Messrs John Maxwell (vice-president), J. E. Connor, H. Todd, S. Gibson, F. Storey, J. F. Grimes, G. W. T. McCann, S. H. Forrest, H. F. Moore, Professor Small and Dr. Acheson. Apologies for absence were received from Messrs. W. S. Taylor, S. S. Badger and W. Martin. Mr. David Kirkpatrick (secretary) was in attendance.

GREETINGS

The PRESIDENT extended New Year greetings to the members of the Council. He expressed pleasure at the return of Mr. Grimes after his prolonged illness.

Mr. GRIMES acknowledged the welcome of the president. It was six months since he had been at a Council meeting, and he was very pleased to be back again. He wished to congratulate Mr. Edwards on his elevation to the chair.

Greetings were received from the president of the Pharmaceutical Society of Great Britain, the Pharmaceutical Society of Ireland, the Pharmaceutical Society of South Australia, the Pharmacy Board of Queensland, the Pharmaceutical Society of Western Australia, the Pharmacy Board of Tasmania, the Pharmacy Board of Victoria, the president and Council of the Ontario College of Pharmacy.

THE PRINCE OF WALES'S VISIT

The following letter was received from the private secretary to the Prince of Wales:—"I am desired to convey through you to the Pharmaceutical Society of Northern Ireland an expression of the Prince of Wales's thanks for the address presented to him on the occasion of his recent visit to Northern Ireland, the terms of which his Royal Highness much appreciated. The Prince regretted that the time at his disposal was not sufficient to allow of a personal presentation of this address."

The PRESIDENT said he had represented the Society at the opening of Parliament by the Prince and at the City Hall.

LICENCES

The Minister of Home Affairs forwarded a return of licences issued to pharmaceutical chemists during the three months ended December 31, 1932. No licences were issued to chemists and druggists or registered druggists during the period. The new licences were issued to Messrs. John Gilmore, 259 Albertbridge Road, Belfast; D. A. Taylor, 5 Bridge End; Thos. Reilly, Bridge Street, Banbridge; George Bell Busby, Beesbrook, co. Armagh; John Caldwell, 57 Chichester Street, Belfast; Ernest David Barr, 20 William Street, Londonderry.

The SECRETARY said five were new, and one was a transfer of an existing business.

CORRESPONDENCE

The Ulster Retail Drug Trade Association wrote with reference to the proposed new headquarters of the Society that "according to reliable information" negotiations which now appeared to have been abandoned were at one period in progress concerning the purchase of a particular building at a figure, if not precisely £9,500, very closely approximate to it (C. & D., January 14, p. 30).

The PRESIDENT said the mandate for a building had been coming up every year, but no price was attached.

Mr. STOREY said he could not understand where the U.R.D.T.A. got its so-called "reliable information." It was agreed that the letter did not call for a reply.

REPORTS FROM EXAMINERS

The reports of the examiners on the December examinations were read.

Dr. Fielden and Mr. Theo. Harper reported that the standard required in practical dispensing was well maintained by the majority of the candidates. There was still room for conciseness and clarity in the answers given to questions dealing with forensic pharmacy.

Professor Small reported that in botany the general standard of the answers was reasonably good, but there was a surprising lack of knowledge concerning the use of *Fucus* in pharmacy and of bacillus as a specific type of the bacteria. The practical work was on the whole of a lower standard, which was mainly due to the candidates not noting what they saw in the material supplied; this included young inflorescence of hyacinth which was placed in Compositae and other families, also the flowers of *Coleus* and *Celsia*. The material to be sectioned included aster stem, which was commonly given as a monocotyledonous stem. Very few seemed to recognise the pimento, cubeb, black pepper and grains of paradise which were to be described, but the required descriptions were usually quite sound. In pharmacognosy the average was again reasonable, and five or six candidates obtained high marks, showing thereby that the standard of the papers set was within the capacity of students who work carefully. The precise knowledge of actual drugs which is required in the practical examination continues to separate clearly those who know the raw materials from those who have merely a "spotting" acquaintance with some drugs.

Mr. R. H. Sloan (physics) said that, generally speaking, the standard of the answering had been rather low. In many cases the candidates had failed to express themselves clearly, even on the most elementary parts of physics. After reading the papers he was led to form the opinion that in each branch of the subject the students' reading had been somewhat disjointed and curtailed. The practical called for no special comment, the standard being shown by the marks.

Dr. H. Graham (chemistry) reported that in Part I (theoretical chemistry) the paper was of Matriculation standard. Questions 1 and 8—definitions—were answered reasonably well. The remaining questions, especially those including chemical equations or calculations, were very poorly answered. Part I (practical chemistry) was partly Matriculation and partly First Medical standard. There was an improvement in the quantitative work, several candidates doing very well. The candidates, however, made a very poor attempt at purifying a substance and determining its melting point. In Part II (theoretical chemistry: standard, First Medical organic chemistry and inorganic chemistry) the answering was reasonably good; three candidates scored above 70 per cent. Part II (practical chemistry) was made as simple as possible in order to give the candidates every opportunity of showing that they had some capacity for neat and accurate work. Thirteen candidates came up to this standard.

NEW HEADQUARTERS

The House Purchase Committee recommended that No. 2 Princess Gardens, Belfast, offered at £2,000 for a headquarters of the Society, be acquired. An architect's report was read in which it was stated that a large hall could, if necessary, be erected in the garden.

The PRESIDENT said it was a splendid building of brick and sandstone.

Mr. STOREY moved the adoption of the report. Mr. CONNOR seconded.

Mr. STOREY said he would have preferred a house in the centre of the city, but this building was suitable and in the best part of the city, assuming they were going away from the centre. He would have been inclined to have spent more money on a house, but if a central place cropped up in future there was nothing to prevent them looking at it.

Mr. TODD said the necessary alterations would cost about £250.

In reply to Mr. Todd, the SECRETARY said the ground rent was £10. The present building was costing them about £150 a year *plus* taxes. The valuation of the new building was £62.

The minutes were passed, and the Committee was instructed to buy the house on the best terms possible.

NEW MEMBER

Mr. John C. Connell, 1A Cregagh Road, Belfast, was elected a member of the Society.

Pharmaceutical Society of Great Britain

Examination Results

Pharmaceutical Chemist Qualifying Examination

At the examination held in London during January the following candidates were successful:—Bridgman, Ena M.; Chapman, Kathleen M.; Davies, R. C.; Desmond, D. A.; Doctors, S.; Lea, F. C.; Osborn, N. D.; Shotton, E.; Swann, M. A. The number of entrants was twenty-three, of whom ten failed, three were referred and one was absent.

At the examination held in Edinburgh during January the following candidates were successful:—Baird, Janet Y.; Brown, W.; Geimmell, W.; Hood, J. The number of entrants was eleven, of whom three failed and four were referred.

Chemist and Druggist Qualifying Examination

The following are the results of the examinations held in Edinburgh during January:—

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for Prelim. Sc. exam. ...	88	4	42	14	28	—	—	—	—
Referred subject in Prelim. Sc. exam. ...	53	—	—	23	30	—	—	—	—
Entered for C. and D. exam. ...	69	—	—	—	—	4	27	22	16
Referred subject in C. and D. exam. ...	40	—	—	—	—	1	—	8	31
	250	4	42	37	58	5	27	30	47

Candidates have been referred as follows:—In botany, 16; chemistry, 15; physics, 6; pharmacognosy, 2; pharmacy, 16; pharmaceutical chemistry, 8; forensic pharmacy, 4; total, 67.

Candidates have failed as follows:—In botany, 36; chemistry, 39; physics, 35; pharmacognosy, 18; pharmacy, 27; pharmaceutical chemistry, 24; forensic pharmacy, 11.

The following candidates, having satisfied the examiners in the Chemist and Druggist Qualifying examination, have been registered as chemists and druggists:—

Aitken, J., Falkirk
Alderson, G. F., Jarrow
Anderson, J., Lochgelly
Anderson, R., Anstruther
Appleby, G., Bridlington
Bicket, R., Inverkeithing
Black, N., Esh Winning
Bowness, Mabel, Hawes
Bradley, J. P., Bury
Craven, B., Liversedge
Dearden, Emma M.,
Castleford
Delahunt, H., Saltcoats
Emmott, J. W., Leeds
Fairley, S. C., Sunderland
Fairnie, Janet C., Mus'lb'h
Fleming, A. H., Paisley
Freedman, B., Leeds
Gibson, Marjorie H., Filey
Granger, Margot, Glasgow
Griffiths, W. T., Connah's
Quay
Johnston, J., Elgin
Lewis, O. T., Anglesey
Logan, F. J., Glasgow
McWhirter, E. A., Stirling

Mallinson, E. P., Hudders-
field
Millner, Beatrice,
Manchester
Moon, H., Preston
Nicholson, F., Bradford
Parry, J. G., Liverpool
Parry, W. P., Bangor
Pattullo, Agnes, Dundee
Paul, I. W., Edinburgh
Preston, C. G., N. Shields
Roberts, W. D., Deganwy
Robinson, Alice, Barnsley
Scorer, T. G., Philadelphia
Shaw, R. G., Leeds
Smartt, J. D., Helensburgh
Thomson, W. H., Largs
Thwaites, M., Stanningley
Veitch, W. C., Lanark
Venters, Mary S., East
Wemyss
Wade, H., Keighley
Watson, W. E., Leyland
Weir, W. H., Kemnay
Williams, A. I.,
Carnarvon
Wood, H. L., Gateshead

Branch Meetings

Birmingham.—A meeting of the Birmingham and District Branch was held on January 11 to hear a lecture by Mr. Walter Deacon (a member of the Society's Council), on *X-rays in Science, Art, Industry, and Crime*. Mr. Deacon pointed out that the world's estimate of the value of a discovery was generally based on its utility. By this standard Röntgen's discovery was one of the world's greatest achievements. The wideness of the application of x-rays was then illustrated by a striking set of lantern slides. A considerable portion of the lecture dealt with the x-ray departments of modern hospitals. Questions followed which emphasised the interest that had been aroused by the lecture. The attendance was a record one, and the meeting was brought to a close by a hearty vote of thanks to the lecturer.

Nottingham.—A meeting of the Nottingham and District Branch was held on January 19, Mr. F. W. Shepherd in the chair. Mr. T. Marns (a member of the Society's Council) delivered an address on *Pharmacy in the States* (illustrated by lantern slides). Mr. Marns described the different conditions existing in America between 1927 and recently. A discussion followed in which Messrs. Ball, Beilby and Newbould took part. A vote of thanks was accorded to Mr. Marns on the proposition of Mr. E. C. Carr. This meeting afforded an opportunity for a presentation to Mr. W. J. Clay as some recognition of his many years' service as secretary and a token of the esteem in which he is held by his brother pharmacists. The gift took the shape of a specially bound volume of "Nottingham—Past and Present" and a cheque subscribed for by over 100 members. Mr. Clay suitably acknowledged the present.

Scarborough.—The annual meeting of the Scarborough and District Branch was held on January 19, and was followed by a supper for members and student-associates at the St. Nicholas Hotel. The following officers were elected:—*Chairman*, Miss A. M. Hill; *Vice-Chairman*, Mr. J. W. Hopper; *Secretary and Treasurer*, Mr. H. M. Hirst; *Committee*, Miss Wrightson, Messrs. Scott, Hunt, Glenton, J. W. Chapman and Turner.

West Middlesex.—A meeting of the West Middlesex Branch was held on January 17, Mr. J. Dobson (chairman) in the chair. Mr. Dobson referred to the loss sustained by the death of the vice-chairman (Mr. J. Chalmers), and the members stood in silence. An appeal for support of the British Pharmaceutical Conference to be held in London in July was made by Mr. H. N. Linstead (secretary of the Society), who gave an address on *Current Pharmaceutical Topics*. Mr. Linstead referred to the relations between the Society and its members and various Government departments and officials. A discussion followed, and a hearty vote of thanks to Mr. Linstead was carried on the proposal of Mr. T. Marns.

SPONGE-FISHING.—The February issue of "The Story-Teller" (The Amalgamated Press, Ltd.: 1s.) includes a story entitled "Last of His Line," by Eustace L. Adams. The milieu is the sponge-fishing industry in Florida, and the author has obviously taken great pains to get his technical details accurate, thus not only adding to the interest of his romance, but also leaving his readers with the satisfactory impression that the calling in which his principal characters are engaged has a definite relation to their actions.

We have received from Trade & Travel Publications, Ltd., 14 Leadenhall Street, London, E.C.3, a copy of the 1933 edition of "The South American Handbook" (pp. 610, 4½ in. by 7½ in., 2s. 6d.). Now in its tenth year of issue, this publication well maintains the service for which it was originally designed; that is, to give the trader and traveller in a concise form the maximum of essential information about all the countries falling within its scope. It deals one by one with all the countries southwards from Mexico to Tierra del Fuego. The trade figures are the latest available.

Festivities

Manchester Function

THE annual whist drive and dance of the Manchester Pharmaceutical Association was held on January 18. The company was received by the president (Mr. E. H. Simmons) and Mrs. Simmons. After supper the whist prizes were distributed by the president to the following:—*Ladies*, (1) Miss Breese; (2) Miss Torrance; (3) Mrs. Lateward; (4) Mrs. Dickson. *Gentlemen*, (1) Mr. G. L. Balf; (2) Mr. Teasdale; (3) Mr. R. L. Balf; (4) Mr. James Grier. Dancing continued until 1 a.m.

Reading Dinner and Dance

THE annual dinner and dance of the Reading and District Branch of the Pharmaceutical Society was held on January 11. In the unavoidable absence of Mr. W. J. V. Powden (chairman), the guests were received by Mr. C. C. Butler (vice-chairman) and Mrs. Butler. The company included Dr. A. B. Howitt, C.V.O., M.P., and the Mayor and Mayoress of Reading. The toast of "The Pharmaceutical Society" was proposed by Mr. E. C. Cripps and responded to by Mr. G. R. A. Short. Mr. J. W. Todd, proposing "Our Distinguished Visitors," said there was no person who combined the professional with the commercial in the same way as the pharmacist. Dr. Howitt replied. Prizes were distributed by the Mayoress and Mrs. C. C. Butler.

Staff Functions

AN enjoyable evening was spent at Derby, recently, when Mr. E. Crossley, manager of Boots, Ltd., St. Peter Street, presided over the third annual dinner, dance and whist drive. About 130 guests attended, many of them from surrounding districts.

THE London staff of Burroughs Wellcome & Co. held their New Year party at the Holborn Hall, London, W.C.1, on January 18. Members of the staff and friends numbered upwards of 400. The general manager (Mr. George E. Pearson) was present. Mr. C. Gordon Oakes acted as M.C., and Mr. C. G. Winter was M.C. for dancing. Competitions, games and a miniature whist drive interspersed the dancing, and the entertainers included well-known broadcasting artists. During the evening a session of community singing was enjoyed with Mr. E. R. Brooker at the organ. The festivities wound up with the singing of "Auld Lang Syne."

Aux Salons de Suffolk

THE night was drear and dankly cold and 'flu was rife and fog-clouds rolled o'er Kentish weald and Suffolk wold in blobs of browns and "galleries." For January had begun but nineteen days, yet set of sun saw pharmacists in purple clad greet pharmacistas gay and glad within the Suffolk Galleries. To number of five-score and ten they waltzed, one-stepped and polkaed when, with Mrs. Adams' greeting o'er they were allowed to take the floor to worship with Terpsichore. And Peter Irvine (held in thrall by visions both on floor and wall in green and gold and *chicorée*) had but to breathe in gentle tones a hint of Paul (whose name is Jones) to bring response instant. For joy was free and unconfined, we giped at 'flu and winter wind, with quip and crank and banter. Miss Hodgkinson and Mrs. Freke and many others strong and weak so heartened us to reach the peak of merriment that gladly we helped them in their goodly deed; and when the hour of midnight freed them from their task we all agreed that farewells sounded sadly. [This fragment of metric prose apparently deals with the very successful annual dance of the National Association of Women Pharmacists held on January 19.—EDITOR.]

West Glamorgan Dinner

THE West Glamorgan Branch of the Pharmaceutical Society held a successful dinner at the Hotel Metropole, Swansea, on January 19. There was a representative gathering of the pharmaceutical, medical, and dental professions. The chair was occupied by Mr. T. Gwyn Lawrence (president of the Branch), and the company included Mr. F. Gladstone Hines (president of the

Pharmaceutical Society), the Mayor and Mayoress of Swansea, Mrs. T. Gwyn Lawrence, Mr. A. W. Morgan (Bedford), Mr. John Rees (treasurer of the Branch) and Mrs. Rees, Mr. C. R. Dickens (secretary of the Branch) and Mrs. Dickens, Dr. D. R. Edwards (president of the local branch of the British Medical Association), Dr. Roy Thomas and Dr. C. P. Robinson (joint secretaries of the local branch of the British Medical Association), Mr. and Mrs. J. H. Kent, Mr. and Mrs. J. Rowland James, Mr. T. W. Page-Jones, Mr. G. L. Margetts (Swansea Insurance Committee) and Mrs. Margetts, Mr. and Mrs. J. Gilbert, Mr. and Mrs. W. J. Davies, Mr. and Mrs. Malcolm Lynn, Mr. Ross Henderson (Llanelli), Mr. John Gower (secretary of the Carmarthen Branch), Mr. A. B. Andrews (Aberdare), and Mr. Trevor Thomas (Cardiff). The toast of "The Pharmaceutical Society of Great Britain" was proposed by Mr. T. Gwyn Lawrence, who said that in Mr. F. Gladstone Hines they had a fearless leader. The president, responding, said they could see a silver lining after the dark days they had passed through. This year they would definitely see a step forward on the educational side. On the domestic side the year might see a definite form of regulation and the control of apprenticeship. "The Town and Trade of Swansea" was proposed by Mr. Ross Henderson (Llanelli), and the Mayor responded. Mr. J. Rowland James toasted the "National Pharmaceutical Union," to which Mr. A. W. Morgan (representing the Union) replied. "The Medical, Dental, and Kindred Associations" was proposed by Mr. John Rees and responded to by Dr. D. R. Edwards and Mr. H. H. Boyle. The two remaining toasts, "The West Glamorgan Branch of the Pharmaceutical Society" and "The Guests, including the Ladies" were proposed by Mr. Malcolm Smith and Mr. J. S. Gilbert respectively, and replied to by Mr. T. W. Page-Jones and the Chief Constable. A dance followed.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the
National Health Insurance Acts

Local Reports

ENGLAND

Croydon.—At a recent meeting of the Croydon Borough Insurance Committee the Pharmaceutical Service Subcommittee reported on a case of alleged inaccurate dispensing. The chemist had exercised his right of having the second portion analysed by an independent analyst, whose report confirmed that of the Committee's analyst. The chemist stated that the assistant who dispensed the medicine was unqualified, but had had twelve years' experience in dispensing, and that he had every confidence in his work. With regard to the discrepancies he could only suggest that an error was made by the assistant in weighing an ingredient, and that a simple infusion of orange was mistakenly used for the compound infusion. The subcommittee recommended that a caution would meet the case. The report was approved.

Middlesex.—At a meeting of the Middlesex Pharmaceutical Committee held on January 18 the question of taking samples in connection with the scheme for testing drugs and appliances from chemists on the Middlesex panel but outside the geographical boundaries of the area was considered, and it was decided that it would be inadvisable to suggest any restriction upon the taking of samples, provided the chemists were included in the Middlesex list of contractors for the supply of drugs and appliances. The supervisor's report showed that the prescriptions priced for October 1932 numbered 203,988, at an average cost of 8.2d., including a dispensing fee of 4.4d.; the November prescriptions numbered 199,319, at the same average cost. Reference was made to unusual prescriptions examined at the pricing office and to the neglect by some chemists to indicate on the scripts exactly what had been dispensed, thus causing delay owing to the scripts having to be returned for further information.

New Zealand Chemists Combat Price Cutting

AN effective method of attacking price-cutting is being used by New Zealand chemists. Despite the fact that the population of this country is only about 1½ million, chain and departmental stores have sprung up like mushrooms. There is no equivalent of the Proprietary Articles Trade Association in New Zealand, and these cut-rate stores have used patents and toilets as "attractions" so freely that chemists' sales have been seriously affected. Not only has a large portion of the patent medicine and toilet trade been lost, but also those additional purchases which people make once they have been attracted to a shop. Considerable pure pharmaceutical business has been regained through the effort of Pharmacy Weeks, but with patents the position is different. Blank's Pills are the same wherever purchased, and cut prices always appeal to the buying public. Chemists have watched lines which have been successfully marketed through their goodwill and support being taken away from them through price-cutting. However, this lost trade has taught the advantages and the necessity of co-operation. New Zealand chemists have organised, not against the price-cutter, but against the manufacturer who allows his lines to be cut.

THE SCHEME EXPLAINED

Groups of from 25 to 150 members have been formed, experienced advertising consultants engaged, and sufficient money collected to finance a co-operative buying and selling campaign over a lengthy period. Briefly, the scheme embraces large newspaper advertisements featuring at cost price the same lines which have been cut by competitors, window display, price tickets, circulars and window streamers, so that wherever people go they see the same streamer announcing that "Chemists Smash Prices," the same style blackboard with the same notice, supported by the same cut lines, priced with the same type of price ticket. Each week lines are changed. An important part of the scheme is that no individual chemist's name must appear in any advertisement or circular. The effort is purely co-operative, and the benefits are shared by the whole profession.

THE RESULTANT EFFECT

Although the scheme has been operating only a short time the results are surprising and interesting. Chemists report that, while sales have not risen to dizzy heights, more people have found their way into the pharmacy for

the purpose of buying the cut lines and many have put the question to the chemist, "Do you think this is the best for so-and-so?" Substitution is not resorted to unless the customer broaches the question first.

Another interesting effect of the chemists' advertisements is that the lines which the chemists are cutting have ceased to interest the departmental and chain stores, and do not appear in their advertisements. They no longer appeal to the big buyers. The constant fire from the organised small chemists is slowly but very surely shattering the goodwill of many nationally advertised, but cut, lines. Many manufacturers have already fixed reasonable selling prices for their products, and are out to regain the co-operation of the retailer, whose goodwill, while eminently desirable in the past, is vitally necessary to-day. Price-cutting demoralises trade, for while loss of the retailer's profit does not directly concern the manufacturer, the effect it has on the goodwill of his lines does. At the best, national advertising is only complementary.

In view of this price-cutting campaign, it may again be pointed out that, before entering the New Zealand market, a manufacturer should decide whether he can and will protect the selling price of his goods. Secondly, whether he prefers a large number of small loyal customers or the alternative—large orders from a few cut-rate stores. Should he choose the latter, he may have difficulty in placing his New Zealand quota should one or two of these large firms curtail buying, or what is

more likely, suddenly switch to a similar line showing a fraction more profit. In the race for New Zealand trade British manufacturers have a big start over foreign competitors. They should therefore study the market, appoint as agents men who have the confidence of the chemists, protect their retailers and, last but not least, combine business with pleasure by visiting the Overseas Dominions and familiarising themselves with trade conditions. Such visits build and cement Empire trade.

"MATERIA MEDICA FOR STUDENTS OF CHIROPODY," by O. L. Carrington, M.P.S., M.I.S.Ch., is published at 2s. 6d. by W. Heffer & Sons, Ltd., Cambridge.

CALOT'S SOLUTION.—The following formula for Calot's solution is given in "The British Medical Journal" (3759, 96):—Guaiacol 1 part, creosote 5 parts, ether 30 parts, iodoform 10 parts, olive oil 70 parts.

AUCKLAND CHEMISTS

CO-OPERATE to give you

LOWEST

Cash PRICES

City, Suburban and Country Chemists have pooled resources to buy in huge quantities and give you prices which will definitely meet and beat all competition.

Your chemist's professional training and qualifications are your guarantee of quality. NOW you can buy from your local pharmacy better goods at CHEAPER prices.

ENO'S FRUIT SALTS
Large 2/- Small 2/-

DE WITT'S PILLS
Large 4/6 Small 2/4

BAXTER'S Lung Preserver
Large 2/- Small 1/1

Nyal Figsen The Lolly
Large 1/6 Small 1/6


You Buy CHEAPER at You

Watch Your Chemist's Window

ASEM
A proved remedy for Asthma & Cough

PRICES are LOWEST AT... YOUR CHEMIST

Watch Your Chemist's Window

ENO'S FRUIT SALTS Large 2/- Small 2/-	POND'S Vanishing Cream 1/8	GARTER'S Liver Pills 1/1	Chamberlain's Tablets 1/2
DE WITT'S Catarrh Cream 1/4	Bonington's IRISH MOSS Large 2/- Small 1/2	CLEMENT'S TONIC 2/6	BAXTER'S Lung Preserver Large 2/- Small 1/1
RADIO MALT The Leading Vitamin Food Large 6/- Small 3/6	ICILMA Face Cream 1/9	 <p>SELO The FAST British Film</p>	
CALIFIG Large 2/4 Small 1/4	IODENT The Iodine Tooth Paste 1/6		

You buy CHEAPER and BETTER FROM YOUR CHEMIST

Invented and supported by Chemists from Auckland through to Hamilton

The New British Pharmacopœia

SOME of the salient features of the new British Pharmacopœia were discussed at a meeting of the Western Pharmacists' Association, held in Stewart's Restaurant, Old Bond Street, W.1, on January 18. Mr. R. R. Bennett, B.Sc., F.I.C., Ph.C., chairman of the British Pharmaceutical Conference, 1928-30, and a member of the Pharmacopœia Commission, introduced the subject, Mr. P. S. Windwood (president) in the chair. Among those present were Mrs. Fieke, Messrs. A. R. Melhuish, C. A. Noble, H. Martin, W. B. Falding, T. Morley Taylor, B. R. Wilkinson, D. T. Jones, G. Thomas, and H. N. Linstead (secretary of the Pharmaceutical Society).

The British Pharmacopœia, 1932

[ABSTRACT]

THOSE of you who have made time to read the Pharmacopœia from cover to cover will have noted that it opens with a preface in which is recounted the action of the General Medical Council in setting up a Pharmacopœia Commission, and it will perhaps not be amiss if I spend a few moments in saying something about the labours of that Commission for three and a half years. Upon the personnel of the Commission I need not dwell for long; let it suffice to say that the Commission consisted of a chairman and six others, three holding medical qualifications and three holding pharmaceutical qualifications, and lastly a secretary, well known to many here—I refer to Dr. Hampshire, who holds degrees not only in medicine and pharmacy, but also in pure science. Of Dr. Hampshire's services as secretary I cannot speak too highly; he has laboured hard, and I think not in vain, in the extremely difficult task of collecting and collating the enormous mass of material which has reached the Commission, not merely from the length and breadth of Great Britain, but from every part of the British Empire. It is also recorded in the introduction to the Pharmacopœia that the Commission has been assisted in its labours by a considerable number of subcommittees, all composed of experts in some particular subject, and by a whole-time research assistant—a woman pharmacist—who by the courtesy of the Pharmaceutical Society has carried out most useful work in the Society's laboratories at Bloomsbury Square.

I am certain that there will be irreconcilable differences of opinion as to the justness and wisdom of certain omissions from the Pharmacopœia. Pharmacists and medical practitioners of an older generation will find that many well-tried preparations have been jettisoned, but it is noteworthy that an arrangement has been made with the Pharmaceutical Society whereby all the preparations which were included in the B.P., 1914, and have been omitted from the B.P., 1932, will be appropriately described in the next edition of the British Pharmaceutical Codex. (Several of the principal additions to the B.P. were mentioned with brief comments.) Among other changes, it should be noted that the descriptive title "purified," as applied in the B.P., 1914, to articles such as borax and alum, is omitted, but it is specifically stated that the standards of purity in the Pharmacopœia are to apply to articles intended for medicinal use, and not necessarily to articles which may be sold under the same name for other purposes. It is to be observed that all the pharmacopœial doses have been revised, and many have been altered, in conformity with modern ideas in the matter of dosage.

In connection with the standardisation of thyroid it cannot be too strongly emphasised that the new standard of 0.1 per cent. of iodine in combination as thyroxine bears no fixed relation to the U.S.P. standard, which demands that thyroid should contain 0.2 per cent. of iodine in organic combination, but omits any reference to iodine in thyroxine combination. It must be borne in mind that the total iodine content of thyroid is made up of approximately 10 per cent. of inorganic iodine and 90 per cent. of organic iodine, and this organic iodine consists partly of thyroxine-iodine, which is insoluble in acids, and partly of acid-soluble substances. The acid-

soluble constituents consist chiefly of di-iodotyrosine, a substance which is relatively inert. The B.P. thyroid is standardised solely upon its content of the highly active thyroxine-iodine, and it seems that this is a point which at the moment is not clearly understood. Another important factor is that the B.P. thyroid has no fresh and equivalent, and medical practitioners must be urged to discontinue the old practice of prescribing thyroid in terms of fresh gland.

One of the many difficulties of a Pharmacopœia Commission will always be that so many drugs come into fashion and go out, and the boom level may correspond with the issue of the Pharmacopœia, with the result that the revisers have either to do violence to their conservative instincts if they include the new preparations, or they must be prepared for criticism if they do not. The Commission, in preparing the 1932 Pharmacopœia, has ruled out speculative inclusions, and in so doing can claim to have acted in accordance with the traditions of British medicine, and with the policy of the General Medical Council. In the preparation of the B.P., 1932, close contact has been maintained with the authorities responsible for the production of the United States Pharmacopœia. In various respects the B.P., 1932, has been brought into line with the current U.S.P. which was published in 1925. In the United States work is now proceeding upon the preparation of the 11th revision, which is timed to appear in 1935. A ten years' interval is now regarded as convenient on both sides of the water between national issues of the Pharmacopœia, and it is hoped that in future the issue of the British and the American publications will alternate every five years. The next British Pharmacopœia, in that event, will appear in 1940, and henceforward at regular intervals. It is hoped that its production will remain in the hands of a Permanent Commission with a permanent secretary and a full-time research assistant, and in that way the British Pharmacopœia should eventually become a volume of which the whole British Commonwealth of Nations may be justly proud.

Discussion

MR. MORLEY TAYLOR, opening the discussion, said that when one looked down the list of names of those responsible for the new Pharmacopœia, one could see that pharmacy had received some recognition. He considered that the Pharmacopœia and the Conference were the best advertisements for pharmacy in existence. If they secured a good Press during the Conference it would do good to pharmacists as a whole, and lead to a recognition of their work. (Applause.)

MR. NOBLE commented on tr. chlorof. et morph. '85 and tr. chlorof. et morph. co. '14 apropos of their inclusion in the new Codex.

MR. REEVES called attention to a deposit that had formed in the new B.P. tincture of nux vomica.

MR. WYATT referred to several changes in official preparations caused by directions as to temperature and methods of storage.

MR. EDDYVEAN asked a question about the colorimetric method of assaying liquid extract of ergot.

MR. BENNETT replied to each speaker in turn.

MR. D. T. JONES proposed a vote of thanks to Mr. Bennett, and this was seconded by Mr. WILKINSON.

MR. MELHUISH, supporting, said Mr. Bennett had been very modest, for he had not told them he was the active and able chairman of the Pharmacy Subcommittee. Mr. Pennett had put in a great deal of work. With regard to the Pharmacopœia, he (the speaker) ventured to say it was the best in the world at the present time. It was an Imperial Pharmacopœia and ought to stand in the forefront of such works. Whenever the occasion had arisen during the preparation of the book he himself had come down on the side of modern thought and modern ideas as far as his knowledge would allow, and the new Pharmacopœia showed an advance on any of its predecessors.

The resolution was carried with acclamation, and Mr. Bennett made a brief acknowledgment.

Association Meetings

Prescription Problem

lost Bunch / 10x
and unknown / 10x
first end w / 7x
first Bunch. 1x
a number. 3x
It must add 3x
in red pencil

BRITISH CHEMICAL PLANT MANUFACTURERS' ASSOCIATION.—The official Directory of Members of the British Chemical Plant Manufacturers' Association, 1933, including a classified list of their manufactures and services, has been issued at the office of the Association, 166 Piccadilly, London, W.1, where it may be obtained on application by buyers of chemical plant.

Trade Notes

CALMON & NEATE, LTD., 8 Gerrard Street, London, W.1, are the distributors in this country of Wonderstoen.

BONUS OFFER.—Kof-Oh Co., Ltd., Minera Street, Everton, Liverpool, are offering a bonus on certain orders for Kof-Oh cough cure placed during February.

PRESSURE filling tanks suitable for bottles with sprinkler necks are advertised in this issue by John P. Jackson & Co., Ltd., Department C.D., 18 Earle Street, Liverpool.

THEEOL is the name given to the ovarian follicular hormone that is effective when given by the mouth. It is supplied by Parke, Davis & Co., Beak Street, Regent Street, London, W.1, in bottles of 20 capsules, each capsule representing 50 rat units. A related substance Theelin is supplied in ampoules for hypodermic injection.

WATERGLASS.—United Chemists' Association, Ltd., manufacturing chemists, Cheltenham Spa, have sent us specimen 1 lb. and 2 lb. tins used for their Ucal brand waterglass. As will be seen from the illustration, this line is packed in decorated tins which are strongly made. Other sizes available are 4 lb. and 7 lb. tins. For dispatch purposes the product is sent out in one dozen boxes composed of fibre board shell with wooden ends.



SILVETTES.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, have introduced a novel method of packing some of their tablets. The usual bottle and carton, or box, has been superseded by the attractive style shown in the illustration. It consists of a box finished with patterned silver paper with a transparent aperture through which the highly burnished tablets, and their title, can be seen. One dozen Silvettes are enclosed in a display outer. The object of the



transparent aperture is to show the very high burnish of the silver-coated tablets on which the company pride themselves. The other three lines of the series (in addition to that shown) are also silver coated, and they comprise a remedy for indigestion consisting of sodii bicarb, sodii sulphocarb., pepsin, and phenolphthalein; a pill for the liver (a well-balanced aperient); and a tonic which is a combination of hypophosphites with strychnine. The prices have been sent to the P.A.T.A. to be put on the protected list, and show a good margin of profit.

SOLPORT BROTHERS, LTD., 184 Goswell Road, London, E.C.1, have forwarded us a specimen carton of their

well-known Watersprite knitted face cloths in a new guise. They are now offering all numbers of these cloths individually wrapped in cellophane and packed two dozen in a new and attractive counter carton.



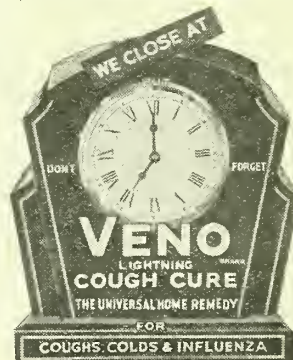
The additional cost for this ready-for-sale packing is 6d. per dozen in each case. The list of the various qualities (with prices and illustrations) is given, and the general effect of the display is well shown in a new illustrated price list, which will be supplied on request. The standard packing of these face cloths is still available at the old prices.

PRICE REDUCTION.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, announce reductions in the prices of Allenburys Carminative. Details of the increased discount and special terms will be sent on application.

CLARKES BLOOD MIXTURE.—The Lincoln & Midland Counties Drug Co., Ltd., Park Street, Lincoln, give particulars on another page of this issue of a bonus offer available in connection with Clarkes Blood Mixture (liquid or tablets).

HIRST, BROOKE & HIRST, LTD., Sheepscar Works, Leeds, have published a brochure entitled "Our History, Our Works, and Our Policy." It is written by Mr. Geoffrey A. N. Hirst, deputy chairman of the company, and there is a foreword by the Rt. Hon. Lord Melchett. Excellently printed and well illustrated, this publication conveys the impression that even past records will be eclipsed by the continuance of that steady progress which has been achieved since the business was founded in 1821. A copy of the brochure will be sent on application to any of our readers who write for it.

A USEFUL SHOWCARD.—Veno Drug Co., Ltd., manufacturing chemists, Veno Buildings, Manchester, have sent for our inspection one of their new clock showcards, which is illustrated herewith. Chemists can have these cards on application to the above address. Measuring 11½ in. by 9½ in., the card takes up little counter or window space, while from a decorative point of view the design is on popular modern lines. The "hands" can, of course, be altered to suit requirements.



Marriages

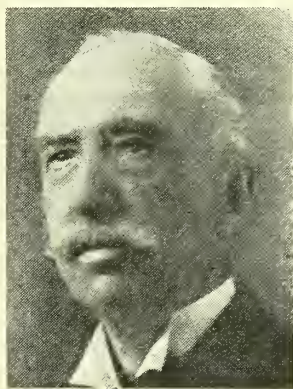
PARRY—JONES.—At Zoar Chapel, Merthyr Tydfil, on January 23, Hadyn Parry, chemist and druggist, Nelson, Cardiff, to Elvira Jones.

Deaths

CHARPENTIER.—At his residence, on January 18, Mr. Charles Albert Charpentier, essential oil merchant and manufacturers' agent, 25 Bartlett's Buildings, London, E.C.4, aged fifty-two. Mr. Charpentier had been in business since 1906. Arrangements have been made for the business to be carried on.

DAY.—At his residence, 21 York Place, Knaresborough, on January 17, Mr. Stephen Day, chemist and druggist, aged seventy-nine. Mr. Day carried on business in the town for more than forty years.

HAGON.—At Cardiff, on January 18, Mr. Albert Hagon, chemist and druggist.



MR. ALBERT HAGON

Mr. Hagon passed the Qualifying examination in 1880, and shortly afterwards commenced business at 52 Bridge Street, Cardiff. A branch was opened at Coburn Street, Cathays, and the business of the late Mr. Thomas Williams at 11 Bute Street was purchased. After a few years Mr. Hagon opened a pharmacy at 5 Bute Street, a well-situated corner site, and closed the three other shops. In 1918 the business was turned into a limited liability company, with Mr. James Murray, previously Mr. Hagon's manager, as managing director. An optical department was installed about twenty-five years ago. Mr. Hagon was elected to the Council of the Pharmaceutical Society in 1904, and remained a member for eighteen years. He held office in various capacities in the Cardiff Pharmacists' Association, and on his retirement in 1922 was presented by the Association with an illuminated address. In appreciation of his services to local pharmacy, and especially to the Welsh College of Pharmacy, a medal called the Hagon medal is presented annually to the student at that College who shows the greatest promise. Mr. Hagon was a prominent member of the Cardiff Chamber of Trade and of the Duke of York Masonic Lodge. He is survived by a son (Mr. A. C. Hagon, barrister-at-law) and two daughters. The funeral took place on January 21, at Cardiff Cemetery, after a service in Roath Road Methodist Church. The following were among those present, in addition to family mourners:—Mr. Alec S. Johnson, J.P., Mr. S. B. Eason, Mr. R. Penrose Kernick, Mr. D. Harries, Mr. E. Poole, Mr. J. Lee Jones, Alderman W. H. Pethybridge, the Rev. H. O. Hughes, Dr. and Mrs. Henry Samuel, Dr. Templar Malins, Councillor W. G. Howell (deputy Lord Mayor), Mr. C. J. Ashwin (representing Sir William Seager), Mr. G. Percy Thomas, and Mr. A. R. Dawson, J.P. The numerous floral tributes included wreaths from Mr. and Mrs. James Murray and family, Mr. E. G. T. Loyley, the staff of A. Hagon, Ltd., the Cardiff and District Branch of the Pharmaceutical Society, the Cardiff Branch of the National Pharmaceutical Union, and the Cardiff Pharmaceutical Committee.

RAPER.—At Denmark Hill, London, S.E.5, on January 25, suddenly, Mr. Edward Raper, chemist and druggist, aged sixty-six. Mr. Raper had a lengthy experience of

pharmacy in London and the provinces, including a period as manager of the drug department of A. W. Gamage, Ltd. He was a Past Master of the Gaddesdon (Herts) Masonic Lodge.

RIGHTON.—The funeral of the late Mr. James Righton, chemist and druggist, Southport, whose death was announced in our issue of January 21st (p. 61) took place at Birkdale Cemetery, Southport, on January 19th, and was preceded by a service at Morningson Road Methodist Church. The congregation included Mr. D. Richards (chairman) and other members of the Southport Insurance Committee (of which Mr. Righton was vice-chairman), Councillor W. H. Bellis (deputy Mayor), Mr. P. D. Boothroyd, Mr. J. P. Hesketh, and Mr. J. K. Ellidge (Southport Protection of Trade Society); Mr. N. Seaborne (Chamber of Trade), Mr. H. Orr (president), Mr. T. R. Newton (secretary), Mr. W. H. Smith, Mr. J. Gee, Mr. W. E. Prescott, Mr. R. Stirling Macdonald, Mr. T. Pickering, Mr. Hislop, Mr. R. C. Wilson, Mr. C. Hare (representing Mrs. Hare), and Mr. J. Denham (members of the Southport Pharmacists Association); Mr. M. A. Shackleton and Mr. W. R. Jameson (Ayrton, Saunders & Co., Ltd., Liverpool), Mr. James Williamson (John Thompson (Wholesale Druggists, 1921), Ltd., Liverpool); Mr. R. Rimmer (a member of Mr. Righton's staff). There was a large number of floral tributes. At the monthly meeting of the Southport Insurance Committee, held on Jan. 17, a tribute to Mr. Righton was paid by the chairman.

WILSON.—At 3 Ipswich Street, Stowmarket, on January 21, suddenly, Mr. Francis Maurice Wilson, chemist and druggist, beloved husband of Netta Wilson, aged fifty-four.

WRIGHT.—On January 18, Mr. Arthur Wright, retired chemist and druggist, 38 Arnold Street, Lowestoft, aged eighty-nine. Mr. Wright carried on business in High Street for a long period, and was much esteemed in the town and district.

Personalities

MR. F. P. DIVECHA (Wright & Co., contractors, Bombay), who is paying his third visit to this country, is well known in the drug trade in India, as he has been connected with it for over thirty years. Mr. Divecha is a prominent figure in the Bombay drug and chemical market, and has had an experience of twenty-three years in business as a chemist and druggist. He is an active member of the Indian Auxiliary Force, and during the war was sergeant of the Indian Defence Force. He holds the Volunteer Long Service and other medals. Mr. Divecha's address while in England is c/o J. Khambatta & Co., 6 Hatton Yard, London, E.C.1.



MR. F. P. DIVECHA

MR. H. PARRY, chemist and druggist, Nelson, Cardiff, has been elected vice-president of the local chamber of trade.

MR. T. BAKER, chemist and druggist, Oldham, has been elected to represent chemists on the committee of the local chamber of trade.

MR. ARTHUR WILSON, Ph.C., one of the senior members of the staff of the Wellcome Chemical Works, Dartford, retired on December 31, after thirty-five years' service.

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A/251. Nocturne hot-water bottles.

J/251. Perra vanishing cream

G/251. Skin soap with admixture of fine sand

I/121. Sunrise solid dentifrice

THE CHEMIST AND DRUGGIST

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An Important Legal Decision

FROM time to time we follow with interest reports of legal actions which, though not of direct moment to the drug trade in either its commercial or its professional aspect, are of considerable importance to the shopkeeping community as a whole. The case of *Harper v. Haden and Sons, Ltd.*, dealt with by the Court of Appeal last November, is of that nature. For the purpose of adding a story to their premises, the defendants erected a scaffolding and hoarding, with a gangway carrying the footway round the hoarding, all necessary licences for these erections having been obtained from the local authority. The plaintiff, owner of an adjoining shop, alleged that the hoarding had obstructed the highway and deflected his possible customers; and he estimated the damage suffered at £150. The action was originally tried in the Chancery Division by Mr. Justice Bennett, who gave judgment for the amount claimed. From this decision the defendants appealed, and the Court of Appeal allowed the appeal.

A Leading Case

This being a type of case which has occupied the attention of the Courts on various occasions at wide intervals during the last fifty or sixty years, it may be of interest to see what the legal position really is. The case of *Lingké v. Mayor and Corporation of Christchurch* arose upon a claim for compensation under Section 308 of the Public Health Act, 1875. The plaintiff, Mrs. Lingké, occupied a house and shop in which she carried on the business of furniture dealer. The shop was situated between two bridges over different branches of the river. The defendant Corporation, in pursuance of their powers under the Public Health Act, 1875, started a drainage scheme and began work at this spot in September 1910, the work not being finished until January 1911. This work involved the keeping open of a manhole within a foot of the kerbstone outside the plaintiff's shop and the heaping of excavated soil which interfered with access to the plaintiff's house and shop. Thereupon the lady claimed compensation in respect of this interrupted access to her premises, and nominated an arbitrator under the provisions of the Public Health Act, whose services as such the Corporation also agreed to accept under protest. The arbitrator made an award in the plaintiff's favour for £23 7s. 10d. damages. Thereupon the defendants disputed their liability to pay anything, and Mrs. Lingké brought an action in the County Court to enforce payment of the award. The County Court judge gave judgment for the defendants and his decision was upheld on appeal by the two Judges of the Divisional Court; whereupon the plaintiff took the case to the Court of Appeal, and there the decisions of the Divisional Court and

of the County Court judge were reversed, and judgment was entered for the appellant with costs all through. Section 308 of the Public Health Act, 1875, is a section to be borne in mind by traders and others who may at any time find themselves inconvenienced or injured, or both, by the doings of the local authorities. It reads as follows:—

"Where any person sustains any damage by reason of the exercise of any powers of this Act, in relation to any matter as to which he himself is not in default, full compensation shall be made to such person by the local authority exercising such powers; and any dispute as to the fact of damage or amount of compensation shall be settled by arbitration in manner provided by this Act, or if the compensation claimed does not exceed the sum of twenty pounds, the same may, at the option of either party, be ascertained by and recovered before a court of summary jurisdiction."

It may be observed that this section applies to cases in which a local authority has done something or is doing something in the exercise of its statutory powers. It is important to bear in mind that where an act is done by a public body in pursuance of statutory powers, no action will lie against that public body at the suit of a private individual for injuries sustained by him as a result of the exercise of those powers if reasonable care is taken to prevent any unnecessary damage. A public body is thus, to some extent, in a happier position than a private person. Supposing, however, damage is due to absence of reasonable care in the exercise of the statutory powers, an action will then lie against the local authority; and then the local authority is not more happily placed. One other matter must be borne in mind: if work has been done for which there is no statutory authority and the plaintiff has been injured thereby, he will be required to prove that he himself has suffered special damage (e.g., as distinct from the public generally) directly and substantially.

The Distinction Drawn

In the *Harper v. Haden* case, however, Mr. Justice Bennett had not found as a fact that the obstruction had offended unduly in either respect—either in its extent or in its duration—so the plaintiff had no cause of action, and the judgment of Mr. Justice Bennett was set aside. We need hardly point out that the case of *Harper v. Haden & Sons, Ltd.*, was not an action against a local authority but against a private firm, whereas the *Lingké* action was brought against a public authority. The legal principles involved in both cases are, however, the same, as laid down by the Master of the Rolls in his judgment; and it is important to emphasise the point that no action can be brought against a local authority in respect of wrongful use of statutory powers unless the action would have lain against a private individual. "Notwithstanding the statute," said Lord Justice Buckley, "the Corporation is liable for negligence. Under the Statute the Corporation is by Section 308 liable to make compensation in any case in which the exercise of the statutory powers results in a state of facts which in the absence of the statutory powers would give a cause of action for damages." No clearer or more succinct summary of this department of law has ever been placed on record.

The B.P., 1932, Discussed in Edinburgh

THE third evening meeting of the present session of the North British Branch of the Pharmaceutical Society was held in Edinburgh on January 20, Mr. J. B. McVittae (chairman of the Executive) presiding. The chairman said since the last meeting there had passed away two members of the Society who filled official positions. Mr. Jonathan Innes Fraser, Ph.C., Edinburgh, served for many years on the Board of Examiners for Scotland and was chairman in 1913-15 and again in 1918-20. Dr. William Inglis Clark, Ph.C., took a very active part in the work of the Society and was a member of the Board of Examiners for Scotland from 1882 to 1891. Introducing the lecturer, Mr. H. Berry, B.Sc., A.I.C., Ph.C. (head of the Pharmacy Department of the Central Technical College, Birmingham), the chairman said Mr. Berry was a member of the Pharmacy Subcommittee of the Pharmacopœia Commission, and in that capacity had done extremely useful work. He had pleasure in calling upon him to give his address on

The Pharmacy of the British Pharmacopœia, 1932

[ABSTRACT]

THE new Pharmacopœia undoubtedly makes a greater advance over its predecessor than any other Pharmacopœia has done, for it was long overdue. When the student places the two books side by side, his lot is definitely made much more difficult. The Pharmacopœia has long passed the stage when any one man can become expert in all its branches, and, even to appreciate it, the student requires a good grounding in biology, chemistry and physics, and to be well trained in the adaptation of these sciences to pharmacy. Moreover, we must recognise that it is an inevitable tendency away from what is known as the "Retailer's Pharmacopœia." The 1898 Pharmacopœia began that when it instituted its assay processes, and the economics of alcohol duties urged it on. When a new Pharmacopœia appears, apart from what it institutes it always shocks because of what it omits, and this one is no exception. Apart from the loss of the "Indian and Colonial" drugs we lose some forty-four more with their preparations; the list contains such old friends as anise, chiretta, cubeb, galls, guaiacum, taraxacum, rose and poppy petals, and leeches.

AROMATIC WATERS AND CONCENTRATED INFUSIONS

In considering the changes in galenicals one is probably first impressed by those governing aromatic waters and concentrated infusions. They have been so well discussed that it is hardly necessary to say much about them. The main difficulty was not the designing of the preparations so much as the policy underlying their introduction. The aromatic waters, being used merely as vehicles, must be regarded as of minor importance, however much we may regret the virtual passing of the freshly distilled type—for this is undoubtedly what it means. One must welcome the change as fixing standards for preparations which are largely in demand and for which there was formerly no standard.

In its infusions the Pharmacopœia is only regularising and improving what has practically become universal, the use of concentrated infusions; and I am very much afraid that fresh infusions are doomed. An exception is made in the case of digitalis, which must be made from the standardised leaf.

OCULENTA

It is interesting to trace the development of a typical eye ointment through successive Pharmacopœias. Thus the formula for atropine ointment in 1864 and 1867 directed that atropine alkaloid should be dissolved in a small quantity of rectified spirit and then incorporated in prepared lard. In 1885 benzoated lard was substituted, whilst in 1898 and 1914 the free alkaloid was dissolved in oleic acid and incorporated in lard. The strength of all these remained approximately the same, 2 per cent. Their disadvantages as eye ointments are

very apparent, and a great advance was made by the 1911 Codex in introducing the special type of eye ointment under the name of *oculenta*, which title the Pharmacopœia has adopted. The principle here was a solution of the free alkaloid in a neutral and low-melting-point soft paraffin, with directions to observe aseptic precautions in preparing and packing. The controversy on alkaloidal eye ointments has generally ranged around the point as to whether it should contain the free alkaloid in solution in the base, or whether a salt which would not dissolve but would be water-soluble should be used. The argument for the latter type was that as a salt it would be more readily soluble in the lacrymal secretion. It is interesting to note that the Pharmacopœia has adopted a different type altogether, a water-in-oil emulsion of an aqueous solution of the salt with wool fat as the emulsifying agent and soft paraffin as the base. If the action does depend on promoting solution of the alkaloid in the lacrymal secretion, the advantage of the emulsion type over the other two types is apparent and it should act more quickly. Clinical experiments indicated that this was so, and these results are reflected in the diminution in strength of the atropine ointment. The 1923 Codex suggestion that this type of ointment might be dispensed in soft gelatin capsules is worthy of greater consideration than has been paid to it. In *oculenta* where the medicament is not water-soluble, it is finely powdered and suspended in the mixture of wool fat and soft paraffin.

The most important change in other ointments is the attempt to eliminate lard as a basis. For many years lard as a commercial product has been very unsatisfactory, whether in the kitchen or the dispensary, and it is extremely difficult to get a product at all resembling the home-rendered article. Mercury ointment remains unaltered because its action was so well known that it was a risk to adopt a clinically untried formula. A new basis, simple ointment, promises to be well received as a substitute. I find that it is possible for it to absorb 30 per cent. of water and remain stable. Criticisms have been made that it is too stiff for an ointment like zinc oxide.

The specifications for sterilisation and injections raise a very serious problem for the pharmacist. Modern developments in the methods of administration of medicaments make it inevitable, nor can we visualise these methods as passing phases. Filtration in the cold through a bacterial filter has an obligation attached to it of testing the product for sterility, which makes it a much greater problem.

LIQUID EXTRACTS AND TINCTURES

The important features include the extension of the principle of preparing preparations by the dilution of a liquid extract. I think the policy will generally be welcomed. There is one danger attending the introduction of these very concentrated preparations, the possibility of the medical man prescribing them as such. Their maximum dose is so small that there is a very serious danger attached to the dispensing of them. The process of vacuum concentration has been introduced in certain cases. This was inevitable in view of commercial practice, its great advantages and its occurrence in other Pharmacopœias. It has been, with one exception, applied to those cases in which there is some risk of inactivation of the extractive during concentration. The exception is in dry extract of cascara, where it is employed because in the final drying under reduced pressure it produces a very light highly porous mass which can be passed through a sieve to produce granules suitable for tablet making without further treatment. Moreover, in the granular condition it is much more convenient for use on the dispensing counter than the old hard extract.

Compound tincture of cardamom is not materially altered except for the strength of alcohol. It is a matter of great regret that although great efforts were made to find a satisfactory substitute for cochineal, no suitable dye was forthcoming in time which could be depended

upon. The same problem confronts the compilers of the Codex. New colouring substances are badly wanted in pharmacy.

SWEET SPIRIT OF NITRE

has passed through varied phases in the Pharmacopœia. There was an attempt in 1898 to replace it with a liquor containing pure ethyl nitrite in absolute alcohol with some glycerin. The latter preparation is quite different in taste, aroma and appearance from sweet spirit of nitre, and even though made with 90-per-cent. alcohol would have been unpopular. The B.P. method for preparing the spirit was not the only available one, and the compilers of the 1932 B.P. wisely decided to omit details of method and merely lay down standards. The question of the strength of alcohol and the addition of glycerin was investigated. Rate and degree of hydrolysis in absolute and 90-per-cent. alcohol were measured and the effect of glycerin. The rate of loss of ethyl nitrite from these solutions was also measured, and it was found that the amount of hydrolysis in 90-per-cent. alcohol was negligible, that glycerin did not appreciably retard it, and that far from glycerin retarding the volatilisation of ethyl nitrite, it actually increased it. The main loss of strength occurs when pouring from the bottle.

PYROXYLIN

The B.P. has now omitted any detailed method of preparation and lays down standards for nitrogen content and the viscosity of a definite strength solution in acetone. The 1914 method was a very poor method and not suitable for even reasonable quantities. A very important factor in its preparation is the temperature of the reaction; and if this be kept down, the time of immersion can be very considerably increased. A very good pyroxylin can be made with a one-hour immersion. The nitrogen content, of course, increases with time of immersion. If the same strength solutions of pyroxylin with varying nitrogen contents be made in the same solvent, it will be found that the viscosities of the solutions vary. Many pharmacists will have experienced, when making collodions, that different samples of pyroxylin gave them either a thicker or thinner preparation than they anticipated. In the preparation of flexible collodion, it was suggested that acetone should replace the ether-alcohol; but whilst it gives a good solution, it was found that the castor oil would not plasticise, the collodion on drying forming a brittle film from which the oil "sweated" out.

OTHER PREPARATIONS

The 1914 liquified phenol was approximately 87 per cent., the 1932 being 80 per cent. This is a very convenient figure to permit of slight variation without unduly altering the congealing point.

In cantharidin plaster, the 1914 preparation could be variable in its action according to whether the chloroform was evaporated off or not. The new formula ensures first an acetone solution and then transference of the cantharidin to castor oil before incorporation in the basis.

The formula for compound syrup of ferrous phosphate is the result of much experimentation and criticism. In my opinion it is a good preparation, and has the effect of standardising a preparation which is very variable.

Finally, there is the question of the renaming of many of the official preparations. Three reasons govern these changes; first, to make the name express the correct chemical composition; secondly, to clear up doubtful points; and thirdly, to come into line with the International Agreement.

Discussion

Mr. BLACKIE asked why they had reverted to belladonna root in the making of extract and liniment of belladonna; why oxymel of squill was made from the squill and not from the acetum as formerly; and what Mr. Berry had to say about the alteration in the formula of Gregory's powder.

Mr. BOA said the new formula for blue pill made a very good electuary rather than a suitable pill mass. With regard to the hydrous ointment, he thought the new formula was a very poor one; it was not an elegant preparation. Medicinally it was not good, and as a

toilet preparation it was no use at all. He objected to the use of soft paraffin in simple ointment. It was better to use liquid paraffin. Soft paraffin always contained a trace of burning oils. In some soft paraffins in a certain light a distinct bloom or fluorescence was evident. The constituent giving rise to the bloom was exceedingly irritant. He had seen an eye ointment prepared with soft paraffin of the best quality giving rise to extreme irritation. Hard paraffin was free from the objection applying to soft paraffin, and if liquid paraffin and hard paraffin were used in making the basis they would have a perfectly bland ointment.

Mr. HARLEY asked why the Pharmacopœia had adopted maize starch. The new zinc ointment, under present weather conditions, was a very hard and unworkable product. Mr. Berry, he observed, had omitted any reference to liquor arsenicalis. Was there any satisfactory explanation of the development of fungoid growths in the new preparation?

Mr. RAMSAY said the Branch had naturally expressed a view as to the proposed change in Gregory's powder, which had always been made with magnesium oxide. Despite this expression of opinion from the home of Gregory's powder, they noted that magnesium carbonate was now introduced and other changes made in the formula. About twelve years ago a paper was read on the presence of salicylic acid in aspirin, and now a definite limit was set. The new liquid extract of ergot raised questions as to its keeping properties. The subject of ergot had been fully discussed at Edinburgh, and they had had an important communication from Professor Barger. Recent work suggested that the 1914 B.P. liquid extract possessed certain therapeutic properties indicating some active constituent other than ergotoxine. The new standard for thyroid gland would clear up what was always a difficult point.

Mr. WILSON said Mr. Berry had suggested that the new Pharmacopœia was not so much for the working pharmacist as for the manufacturing chemist. The question arose whether the pharmacist would be in a position to continue making so many of his own preparations. They were faced with two forces, one tending to throw the making of preparations into the hands of the big manufacturer, and the other being the policy of the Society that pharmaceutical operations should be conducted in the pharmacy. He had himself done a considerable amount of work for the Pharmacopœia in connection with infusions, and he was pleased to observe that some of his recommendations had been incorporated. He asked Mr. Berry if he had found concentrated infusion of buchu a success. Made as directed, he thought the result was a failure. Using 1,700 mils of menstruum, he obtained only 400 mils of percolate. The mucilage in the buchu appeared to swell up and the menstruum would not go through. Concentrated infusion of senna came into the same category. He asked if Mr. Berry visualised the process for making oculenta as one that would become common in the pharmacy.

Mr. STOUT said his chief grumble was as to the absence of any reasonable time between the publication of the book and its becoming the sole official standard. If the book was intended for the manufacturer, why did it not state the quantities in British weights and measures? Sulphur, simple and zinc ointments were too hard. Pharmacists liked to have these ointments milled, and zinc ointment, for example, refuses to go below the roller.

Mr. HUNTER said it was no doubt a laudable object to include all the synonyms for compound syrup of ferrous phosphate. This, however, might prevent the placing upon the market of superior preparations. The official preparation was open to criticism. He thought it was too strongly acid.

Mr. COUTTS asked what was the reason for reducing the ounce weight to vacuum and giving it as a very awkward fraction.

Mr. PERRINS asked why 95-per-cent. alcohol had been added and why the percentage of potassium iodide in solution of iodine had been reduced. Under "Gelatin of Zinc" it was stated they were to incorporate the zinc oxide. Did that mean that the zinc oxide was to be sifted in or rubbed down?

Mr. KELLY said he could not now make oxymel of squill from the acetum, the strength of which had been

altered, and the acetum for oxymel had to be made specially.

Mr. NESBITT said there was no comparison between the distilled aromatic water and the aromatic water prepared by any of the other methods. He thought there would be trouble about Gregory's powder and ipecacuanha wine.

Mr. RUTHERFORD HILL said that he had been asked recently why the maximum dose of dry extract of hyoscyamus, which was 8 gr. in the B.P., 1914, had been reduced to 1 gr. in the B.P., 1932. Inspection of the doses and strengths of hyoscyamus and its preparations in the B.P., 1932, showed that the doses were adjusted to correspond to the alkaloidal strengths. The unstandardised tincture of the B.P., 1914, had been replaced by a standardised tincture of approximately the same strength, and the dose had been kept the same. To correspond with the alkaloidal strengths the dose of the dry extract became 1 gr. Similar adjustment between alkaloidal strengths and doses would be noticed in the preparations of belladonna and of stramonium. Each drug, however, had been dealt with separately, and corresponding preparations of the different drugs did not show agreement between alkaloidal strength and dosage. Thus, *extractum hyoscyami siccum*, alkaloids 0.3 per cent., has the same dose as *extractum belladonnae siccum*, alkaloids 1 per cent. Probably doctors did not regard the drugs as interchangeable and used each for its own special purposes.

Reply and Vote of Thanks

Mr. BERRY, in reply, said with regard to the use of belladonna root instead of leaves in the making of the liniment, this had been done to take advantage of the permission to use industrial alcohol. With regard to Gregory's powder, he understood there was evidence that Dr. Gregory had several prescriptions and these

varied in the proportion of the ingredients. They desired to get rid of confection of roses in blue pill. They found that the mixture of syrup, glucose and glycerin, along with liquorice powder, was equally effective for killing mercury. He understood that in the experiments made maize starch was found to be the most satisfactory. With regard to liquor arsenicalis the solutions prepared experimentally had been all placed in a Winchester quart and, up to date, there was not the slightest suggestion of fungoid growth. How fungoid development arose in an arsenical solution was by no means cleared up. The matter was receiving careful attention. With regard to ergot, it had been shown that the old B.P. liquid extract possessed activity which was more quickly developed but transient. In the new B.P. liquid extract the activity developed more slowly but was more prolonged. Probably they might move in the direction of ergotoxine ethanesulphonate. When thyroid was prescribed it would be definitely known what was intended. The process for infusion of buchu was quite workable. The leaves must not be finely crushed but merely cracked. They should be passed through a disintegrator with an open grating on it. The same treatment applied in the case of senna. There seemed no reason why formulas should not be stated in the weights and measures commonly in use. With regard to Mr. Coutts's question, they could quite well carry on with the old method of using 44 gr. ninety-five-per-cent. alcohol was the form in which it was supplied from the rectifier and all the other dilutions were obtained from this standard. The reduction in the percentage of potassium iodide was for economic reasons. They were free to follow their own methods with regard to gelatin of zinc.

The VICE-CHAIRMAN said they highly appreciated Mr. Berry's address. He had pleasure in asking them to award to Mr. Berry a very cordial vote of thanks.

Mr. BERRY, in reply, said it had been a great pleasure to him to come to Edinburgh.

Education and Apprenticeship

IT is truly amazing that, year after year, papers (some written by people who ought to know better) are read at delegates' meetings, letters appear in *THE CHEMIST AND DRUGGIST*, discussions take place, dealing with education and apprenticeship and, as it seems to me, the more one reads them the more insipid they become; they appear to be destructive rather than constructive from the retail and dispensing view-point. Not a single writer seems to have hit on the real cause of the trouble. I now venture to state from my point of view (having trained apprentices for twenty-five years) the reasons and results of the present pernicious system of education and apprenticeship, and suggest remedies.

Pharmacy Syllabus of the Chemist and Druggist Examination

The fact that the syllabus is strictly confined to the British Pharmacopœia is the main stumbling-block. It is obvious, or should be, to all in business that the B.P. is nothing more than an official book of reference for the guidance of manufacturers and wholesalers, as they are the people who provide, under a guarantee, B.P. preparations. It is also obvious that no dispenser in his right mind ever dreams of making a B.P. preparation, or showing his apprentice how to do it, because he cannot compete with the manufacturer, or, if he could and did, he would not then be paying proper attention to the more modern and profitable galenicals now in use. In fact, the book has no useful place in a retail shop; therefore why should it figure in the syllabus? It is really hard to understand why such a fuss is being made amongst retailers about the new edition; but perhaps there are still individuals who get really excited because the composition, say, of Gregory's powder or tinct. card. co. has been slightly changed, or their dear old liquorice powder reports "no change."

How it Affects the Apprentice

It is well known that many a young fellow of slender means has to make heavy sacrifices to save money to qualify; and this being the case, it should be seen to that his savings are well spent. As it is, apprentices are not taught on the right lines. They are not fitted for the struggle for existence which is in front of them. (The appearance of most dispensing departments in shops up and down the country proves this.) Their hard-earned savings are wasted by being compelled to take a course at one of the B.P. examining shops, where instruction in pharmacy is enough to set the lads for all time against taking an interest in dispensing. The authorities themselves (who seem to be still a very listless collection) admit that training in a wholesale establishment is far better than one of their own flock in the retail can give: this surely is a damning admission of inefficiency and retrogressive policy. The whole atmosphere and outlook of the student must be cleared and widened if his training is to be made a means to an end. One of my old apprentices once said to me that, on entering a college of pharmacy, it was like putting the clock back fifty years—in fact, some of the operations he was taught to carry out bore a very strange resemblance to the contents of a prescription-book in my possession dated 1832!

How it Affects the Newly Qualified

What is the result of the present pharmacy syllabus? The average young qualified dispenser (whose interest is usually completely absorbed in window-dressing and bonus schemes) has the sublime impudence to demand his £4 or £5 a week, when he literally knows nothing outside the B.P., and feels insulted if this salary is not forthcoming. Owing to faulty training (through no fault

of his own) he has acquired no keenness whatever for dispensing or "lab." work, because he has never been taught to go about his work in the right frame of mind. To perform uninteresting and unprofitable jobs soon kills one's spirit of enthusiasm. Hence the unpopularity of the dispensing counter. It is up to the Pharmaceutical Society to produce a scheme which will provide masters fit to teach apprentices. In these days of trade depression and world competition, when all traders and manufacturers are out for progress and efficiency, dispensing chemists should be in a position to do their little bit and not be catering for a generation that has vanished.

How it Affects the Employer

The present syllabus puts the employer in a quandary. A master who runs a live, up-to-date dispensary is bound to say to his apprentice: "I'm sorry, but I can't teach you anything about the B.P.; I can't teach you anything about herbs because I neither keep any nor use any; I can't teach you pill-making or Latin because the younger doctors here neither use them nor write it! But I shall have much pleasure in training you in dispensary system and organisation, filing and costing systems, and teach you to make pounds and gallons of dozens of B.P.C. or newer galenicals at present actually in use, and put you through a course of analysis in the laboratory, and all else that bears relation to the modern habits of retail pharmacy." Again, a dispenser of medicine seems to be nobody's child. The store chemist has his P.A.T.A. and N.P.U. behind him, and they look after him well. But the former has no one to prevent the price cutting of prescriptions; he has no central organisation to help his dispensing department; to send him, say, weekly bulletins giving formulas of new galenicals which are constantly coming into vogue, and so helping him to meet competition. The British Pharmaceutical Conference appears to confine itself solely to wholesale manufacturers' research—a sort of mutual admiration society in which shopkeepers are barred from paper-reading on subjects concerning them, although hundreds of them attend annually.

Suggested Remedies

The syllabus of the Chemist and Druggist examination should be brought up to date and tabulated as follows under one single heading, "Modern Pharmacy." It should be a searching examination strictly confined to everything an apprentice ought to perform in a present-day dispensary and laboratory, embracing four papers:—

(a) Retail manufacturing, e.g., making preparations in quantities of pounds and gallons, tablet-making, tubing ointments by machine, and all operations which it pays one to perform in the pharmaceutical laboratory (as distinct from the dispensary), but excluding all jobs which now belong purely to the wholesale manufacturer, such as maceration, percolation, milling ointments, etc. The apprentice to produce his laboratory log-book.

(b) Dispensing, e.g., compounding medicines, making preparations on a small scale in quantities of grains and minims or ounces, but cutting out everything that has become obsolete, such as home-made pills, emulsions, plasters, etc. Dispensary system and organisation, this latter to be in the form of an essay.

(c) Analysis: Water, milk, urine, blood, etc., only items such as are likely to be met with in business. Bacteriology if possible. Laboratory note-book to be produced.

(d) Forensic pharmacy.

Materia medica and Latin should be completely washed out. The latter should be included at matriculation stage. The B.P. should not figure at all in the syllabus, for reasons stated above. The Preliminary Scientific examination guarantees efficiency in chemistry and physics, but botany should be definitely cut out, for it must be remembered that there are very many provincial towns where there are no facilities for a botany course, and this means expense and inconvenience to the apprentice. The examination syllabus, as it now stands, is an excellent one for a young manufacturer or drug merchant, and it seems as if it is drawn up with the very object of keeping the retailer in

ignorance of how to cope with specialities like those issued by wholesale firms. Not being a manufacturer myself, I neither wish to see the Pharmacopœia nor buy one, but prefer to wait for the next edition of the B.P.C. A syllabus as suggested would help to turn out more efficient dispensers, and at the same time exclude a whole mass of stuff of no benefit to the present generation, but which apparently was useful some fifty years ago. Dispensing departments must be entirely remodelled, reorganised and inspected. With an efficient master there should be no need for an apprentice to have further education at a college of pharmacy (these should be abolished); he should be articulated as one is to a solicitor. And yet discussions on the subject never seem to get further than arguments about duration of apprenticeship, or number to be taken at a time, or the number of flasks, percolators and things that should be found in a dispensary. Is it surprising that in many cases individuals in old age have had to fall back on some benevolent institution, owing to ill-health brought on by worry and failure due to inefficiency? The effects are far-reaching.—METEOR (28/12).

Perfumed Cards

THE sale of perfumed cards by organisers of various small charities has tended to bring these articles somewhat into disrepute. Not infrequently, the scent with which these cards are perfumed is of indifferent quality. Nevertheless, the fact remains that a nicely scented card is quite useful for perfuming such articles as handkerchiefs; and there is probably no better way of advertising a new perfume than by the distribution of tastefully designed cards scented with it. Manufacturers of synthetic perfumes and perfume compounds realise the value of scented cards, and distribute in the trade large quantities of cards or, rather, pieces of absorbent paper perfumed with their products. These are usually quite plain, and bear only the name of the product and the manufacturer. They are generally enclosed in envelopes of grease-proof paper. Chemists who wish to push the sales of any particular perfume could not adopt a better means than the distribution of scented cards; and it is a good plan for any chemist specialising in toilet products to see to it that his trade cards are nicely perfumed. There is also a certain demand for scented note-paper and for scented programmes.

To scent note-paper all that is necessary is to keep in the box containing it a tiny scrap of natural musk. There are also several cheaper artificial products which will also serve for the purpose, such as solid artificial amber. Another method is to spray the edges with a suitable perfume while the paper stands in piles. This plan may also be adopted to perfume programmes and cards. Poucher has published the following formula of an amber perfume suitable for the purpose:—

Musk (3 per cent. tincture)	200
Civet (3 per cent. tincture)	50
Ambergris (3 per cent. tincture)	250
Labdanum clair	25
Oakmoss absolute, decolourised	15
Jasmine absolute	20
Rose absolute	40
Musk ambrette	30
Vanillin	40
Benzyl iso-eugenol	30
Benzoin (10 per cent. tincture)	300

In the case of cards, these may be perfumed, before printing, by being immersed in the perfume, or, better, placed in a special chamber in which the perfume is volatilised at a low temperature. A special machine, of simple structure, may be employed for scenting cards after they have been printed. One form of this operates as follows:—A treadle, similar to that employed for operating a sewing machine, causes two rollers to rotate in opposite directions. The rollers are kept moist with the perfume, which is caused to drip on them from a glass container, and the cards are passed between them. Naturally, for use with this machine, a perfume must be selected which will not stain the cards.

An Old Photograph

By T. Maben, Ph.C.

THE photograph here reproduced was taken some forty-eight years ago; while it may show defects incident to age, the features of the nine men will be quite familiar to the many men still living who passed their examinations in Edinburgh in the 'eighties. Until last month two of these men still survived, but in the last issue of *THE CHEMIST AND DRUGGIST* for 1932 there appeared the notice of the passing of the eighth member of the group. This announcement drew my attention to the old photograph; and as it seemed fitting that I, the sole survivor of the group, should pay a tribute to the memory of the men with whom I was for several years so intimately associated, I have asked the Editor if he would be kind enough to make room for these notes.

It was in January 1884 that I joined the Board, and from then till 1899, with the intermission of one year, I remained an examiner. The first of the group to pass over was

Mr. Alexander Kinninmont

who in his day was the most prominent pharmacist in the West of Scotland. He qualified as a pharmaceutical chemist at the age of twenty-six, in 1853, and it was not long before he began to take an active interest in pharmaceutical affairs. When Jacob Bell came to Scotland to found the North British Branch of the Society, Mr. Kinninmont became a member of the first Council. He had commenced business in 1857, and from the first he maintained in their integrity the best traditions of the craft. He was appointed an examiner in 1873, and retained the position for twenty years. I first came into direct personal contact with him in 1880, when he examined me in chemistry and physics in the Major examination; and I still vividly recall his kindly manner and the generous way in which he helped the lame dog over the stile. The experience of all who know him was that Mr. Kinninmont was one of the gentlest and most tender-hearted of men. Nevertheless he held strong individualistic views on business ethics and political affairs, and expressed his opinions with vehement intensity, as for example on what he called the infamous decision of the Law Lords on the company question. On his resignation from the Board in 1893, he was presented by his fellow pharmacists with an address and a cheque for £100. This cheque he handed over to found a Kinninmont prize, to be competed for annually in a written examination by chemists' assistants in Glasgow and the West of Scotland. After his retirement from business he fell a victim to influenza, passing away in January 1895 in his seventieth year. The next member of the group to join the great majority was

Mr. J. B. Stephenson

I think it will be generally agreed that Mr. J. B. Stephenson was one of the ablest pharmacists that Scotland ever produced; it is at least certain that no Scottish pharmacist has ever received more evidences of the esteem of his fellow craftsman than fell to his lot. He was chairman of the North British Branch from 1876 to 1881, examiner from 1876 to 1893, chairman of the Board for many years, and president of the British Pharmaceutical Conference, 1885-86. Mr. Stephenson was the son of a Berwickshire doctor, and was trained in the pharmacy of Duncan, Flockhart, Powell & Co., Leith. He had the inestimable advantage for a pharmacist of attending classes in Edinburgh University, particularly the class in materia medica, of which the great Christison was professor, and the class in medicine of Professor Gregory. Subsequently he carried on business for himself for many years. In addition to his pharmaceutical qualifications he had high literary and classical attainments, and there were few subjects cognate to science or medicine on which he was unable to express an authoritative opinion.

Mr. William Gilmour

Mr. William Gilmour, like Mr. Adam Gibson, was a Fifer, the son of a farmer, and, like him, was trained by Mr. Gavin Steele, of Dunfermline. Young Gilmour started his apprenticeship at the age of twelve! He, of course, had the usual excellent parish school education—John Knox had seen to that—at fees his parents could pay, embracing the three R.s with some Euclid, algebra, more than a smattering of Latin and a modern language. The result was that while assistant with Mr. Lindsay, Edinburgh, whither he had gone, he passed the Minor and Major examinations, a self-taught youth all the time. In due course Mr. Gilmour was taken into partnership, and the firm became widely known as Lindsay & Gilmour. Mr. Gilmour early took an interest in the work of the Pharmaceutical Society in Scotland, and in 1871 he was appointed to the Board of Examiners, which position he held for more than twenty years. He had entered the Council of the North British Branch in 1869 and was president in 1873, while later he became chairman of the reconstituted Executive. Shortly after his retirement from the Board he had a seizure which affected his speech, and in 1905 he had another paralytic stroke which resulted in his death at the age of sixty-two.

Dr. Henry Bellyse Baildon

Although Dr. Baildon had deserted pharmacy for literature many years before his death, the fact that he acted as an examiner from 1881 to 1886, and that he had earned the gratitude of Scottish pharmacists by entering the London Council at a very critical period and thus ensuring for Scotland a certain measure of Home Rule in pharmaceutical affairs, entitle him to our deepest respect. He was the son of H. C. Baildon, of the Edinburgh firm of that name, and was born in 1849, so that he was fifty-eight years of age at his untimely death in 1907. He had definitely severed his connection with pharmacy in 1887, the business being taken over by the late Mr. Robert Aitken, whose son, Mr. Arthur Aitken, now controls it. Dr. Baildon had held lectureships in English literature at the Universities of Edinburgh and Vienna, and at University College, Dundee.

Mr. John Nesbit

Mr. Nesbit was not a native of Scotland. He was one of the relatively few Englishmen who have transferred their allegiance to the "land of the mountain and the flood." Coming from the North of England, he settled in Portobello, in which delectable suburb, now part of the city of Edinburgh, he built up a flourishing business. He passed the Major examination in 1862. Mr. Nesbit was really one of the last of the generation which included such men as James Buchanan, James R. Young and J. B. Stephenson; and though he never came into the limelight he was known to be a very able and conscientious pharmacist who could be trusted to represent, under any circumstances, the Pharmaceutical Society with dignity and credit. He was almost a perennial member of the Scottish Executive, and he took his share in local public work, having been for some years a member of the Edinburgh Parish Council. He died in 1914 at the age of seventy-nine.

Mr. Peter MacEwan

Of all the pharmacists whom I have known during more than sixty years' connection with pharmacy, the one with whom I have been most intimate was Peter MacEwan, who for so many years was the supremely capable Editor of *THE CHEMIST AND DRUGGIST*. Mr. MacEwan was born at Lochee, Forfarshire, in 1856, and after serving his apprenticeship with Mr. Peebles in that town, he became an assistant with Mr. James Hardie, Dundee. He passed the Minor examination in 1876 and the Major in 1880; in 1882 he received the

appointment of secretary in Scotland to the Pharmaceutical Society. In 1885 he accepted an invitation to be assistant editor of *THE CHEMIST AND DRUGGIST*. When Mr. Wootton retired in 1899, Mr. MacEwan was chosen to take his place. He was a tireless worker, often writing night after night till the small hours; there seems to be little doubt that he habitually overtaxed his strength and brought on an arterial condition resulting in the attack in May 1917 which carried him off in a few hours at sixty years of age. May I be allowed to transcribe part of a personal appreciation which was published in *THE CHEMIST AND DRUGGIST* of May 26, 1917, the week after his death?

"My acquaintance with Mr. MacEwan dates from 1880, and during the thirty-seven years that have since elapsed I had the inestimable privilege of his close personal friendship, an experience which has made my own life richer and fuller than otherwise it would have been. We first met in Edin-

Leven. Here he established a good connection as an analyst, dispensing chemist and manufacturer of certain special products such as pepsin and the less common galenicals, which he supplied to various wholesale houses. He also did some private coaching. In 1888 he joined Mr. William Pinkerton in founding the wholesale firm of Pinkerton, Gibson & Co. After Mr. Pinkerton's death he carried on the business with great success until his death in August 1904, at the early age of fifty-eight. In addition to being a highly qualified pharmacist he was an expert angler.

Dr. W. Inglis Clark

The last of the eight to pass over was Dr. William Inglis Clark, whose death at the age of seventy-seven was announced in the issue of *THE CHEMIST AND DRUGGIST* of December 31, 1932. I never met Mr. Clark before I



THE BOARD OF EXAMINERS FOR SCOTLAND, 1884-85

Standing (left to right): MESSRS. PETER MACEWAN (Secretary), W. INGLIS CLARK, T. MABEN, H. B. BAILDON, ADAM GIBSON
Seated (left to right): MESSRS. A. KINNINMONT, J. B. STEPHENSON (Chairman), W. GILMOUR, J. NESBIT

burgh, for the purpose of revising our work in view of the forthcoming Major examination. In this connection it is interesting to recall an incident of those days which showed the analytic as well as the synthetic quality of his mind. During our fortnight's study we felt the need of a chart for the separation of alkaloids and glucosides on similar lines to those employed in the analysis of inorganic salts. There was nothing of the kind available at that time, so MacEwan set to work and himself constructed a chart, which not only tended to our own success at the examination, but which was used for years afterwards by Major students following its subsequent publication anonymously in 'The Chemists' Journal.' . . . Mr. MacEwan was one of the kindest-hearted as he was one of the most level-headed of men."

Mr. Adam Gibson

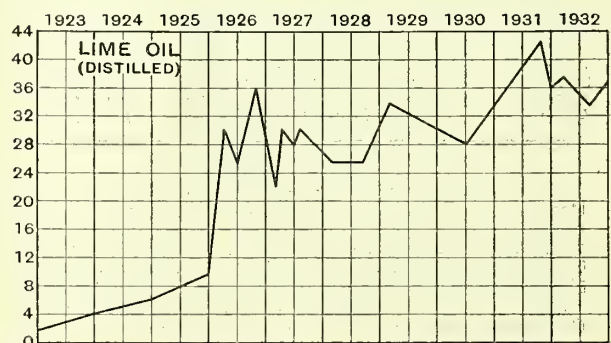
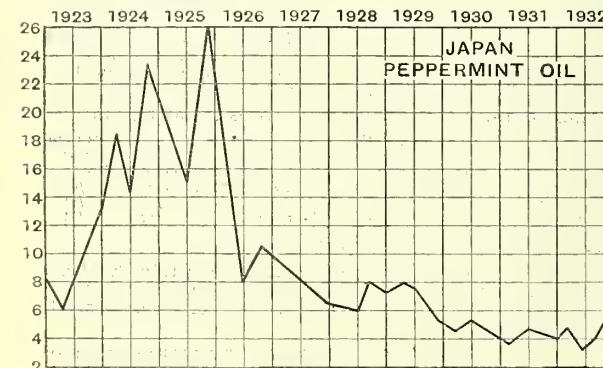
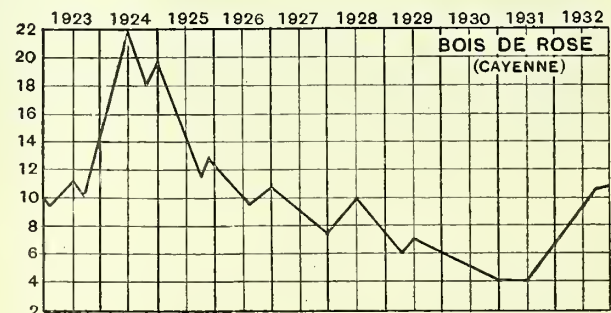
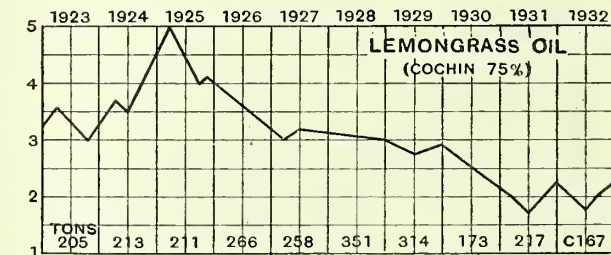
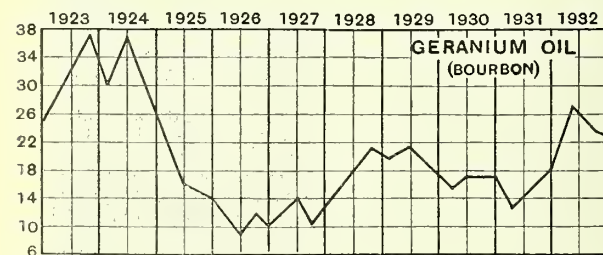
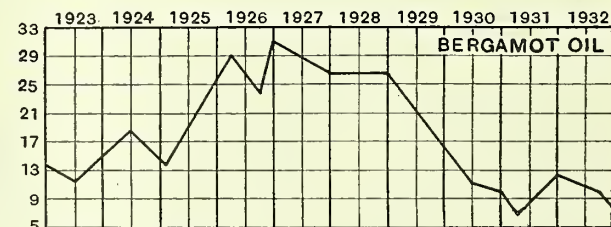
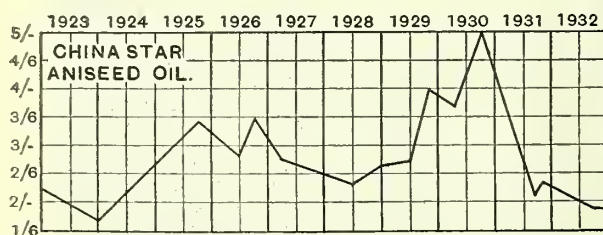
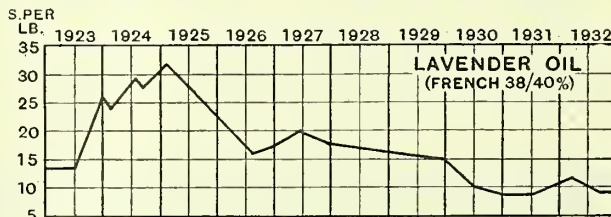
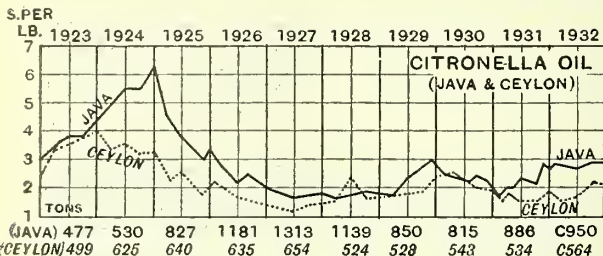
Mr. Gibson was a native of the Kingdom of Fife, as it is sometimes called. His father was a Dunfermline linen manufacturer, and the boy was educated with a view to one of the professions. Fate, however, intervened, and after an apprenticeship with Mr. Gavin Steele of Dunfermline, and some further retail and wholesale experience, Adam found himself owner of a business in

joined the Board, but having been an assistant with Duncan, Flockhart & Co. between 1878 and 1880, at 123 Princes Street, I got to know about the chief of the laboratory staff. The partners of the firm in 1878 were Messrs. Buchanan, Heron, Noble, Dick and Ewing; they used to meet periodically round the table which then stood in the saloon midway between the front shop and the dispensing department, and I can recall that one day a new face appeared. It was assumed that the newcomer, Dr. Inglis Clark, whose fame as superintendent at the South Back was well known, had been admitted a partner. He obtained his D.Sc. before he was eighteen. He passed his Major in 1877, and from 1882 till 1891 was a member of the Board of Examiners. He had charge of the D., F. & Co. laboratories for many years, and used to show visitors round with justifiable pride. I recall his pointing out to me numerous details and gadgets of his own invention; and the conviction left on my mind was that Dr. Clark would have made a success in life, whether as an architect, an engineer, a plumber or a carpenter. In addition, his fame as a photographer is well known, as was indicated in his obituary notice.

Essential Oil Charts

R. C. TREATT & Co., LTD., 11 Hart Street, Mark Lane, London, E.C.3, have issued their annual chart of price movements in essential oils during the past ten years. Copies of the chart may be obtained either mounted or

unmounted on application to Messrs. Treatt. The chart contains graphs of fourteen oils of which ten are reproduced here. In the case of Java citronella, the price includes duty. All London prices in shillings per pound.



Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, January 26

THE MARKETS as a whole seem to have attracted a little more business this week, but there are still some products, mostly in the crude drugs section, that remain more or less neglected. The improvement in sterling exchange rates, which may continue upwards a few more points, has not had any appreciable effect on the markets, probably because spot stocks of most products are on the small side. A rapid and substantial movement in exchange rates is, however, a disturbing factor in business. In the pharmaceutical chemicals market business has been fairly satisfactory, particularly in those products in demand on account of the influenza epidemic. Phenolphthalein has been advanced by eightpence per lb. and there is not much material in dealers' hands. Strychnine has been reduced again, and the salts may follow next week. If sterling goes much higher, products such as quinine and iodides may, as a matter of routine, be quoted cheaper. Phenacetin seems to be a good deal steadier this week, but no agreement on sales prices has yet been notified. Phenazone is also rather better, with not so much cutting. In crude drugs business is by no means good, there being very few articles in active demand, but the tone is generally steady and stocks of many products held on spot are definitely below normal. The shipment market for agar-agar is steadier. Japanese camphor is still neglected. Ipecacuanha is meeting with little call although at low prices. Menthol has been receiving more inquiry after the recent slackness and shipment is quoted at better prices. Opium is quoted slightly cheaper for bulk quantities. Alexandrian and Tinnevely senna pods are moving slowly on spot at steady rates. Gum acacia shipment values have fallen back after the recent improvement. A fair miscellaneous business, mostly in limited quantities, has been put through in essential oils. There is a decided turn for the better in the bergamot shipment market. Sicilian orange is still badly out-quoted by the French colonial product. Japanese peppermint, which had been very flat for two or three weeks, shows some revival, with a fair spot business and inquiry for afloat and shipment. The American oil is keeping fully up to former figures for shipment. Reports indicate a shortage and the possibility of a firmer market. The demand for industrial chemicals has been as good as can be expected and prices, particularly from home makers, are keeping steady. Formaldehyde is a competitive market with cheap prices for bulk quantities. Convention prices for red and white leads are steady. The demand for potash salts is rather poor, with caustic and carbonate dull.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	January 26	Value of the £
Amsterdam ...	Fl. to £	12.107	8.45	13/11½
Berlin ...	Mks. to £	20.43	14.27½	13/11½
Brussels ...	Belga to £	35	24.45½	13/11½
Copenhagen ...	Kr. to £	18.159	19½	21/11½
Lisbon ...	Esc. to £	110	110	20/-
Madrid ...	Ptas. to £	25.22½	41½	32/9½
Milan ...	Lire to £	92.46	66½	14/4½
Montreal ...	Dol. to £	4.86½	13.92	16/1
New York ...	Dol. to £	4.86½	3.39½	13/11½
Oslo ...	Kr. to £	18.159	10½	21/5½
Paris ...	Fr. to £	124.21	87	14/-
Prague ...	Kr. to £	164.25	114½	14/9½
Stockholm ...	Kr. to £	18.159	18½	20/3½
Warsaw ...	Zloty to £	43.38	30½	14/2
Zurich ...	Fr. to £	25.2215	17½	13/11

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS is moving on modest lines in most products. The general tone is steady. Phenolphthalein shows a sharp advance. Strychnine has again been reduced. Phenacetin tends to be a little steadier, and there is not so much cheap phenazone offering.

ACETANILID.—The market is steady; business is quiet; B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL.—Prices are steadily maintained: 56 lb., 7s.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7 lb. tins.

AMIDOPYRIN.—Dealers' prices are a shade cheaper for spot: crystals, five cwt., 18s.; two cwt., 18s. 3d.; less than two cwt., up to 10s. 6d. per lb., with powder 2½d. per lb. extra.

AMMONIUM BENZOATE.—Dealers are quoting spot at about 3s. 4d. to 3s. 6d. per lb., as to quantity.

ASPIRIN.—Makers' and dealers' prices are well maintained, and business continues on a good scale: home trade, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works.

BARBITONE.—Steadier on spot with not so much cheap material offering: spot, one cwt., 11s.; 56 lb., 11s. 3d.; 14 lb., 11s. 8d.; small parcels, up to 12s. 4d. per lb.

BENZONAPHTHOL.—Inquiry is small; dealers quoting from 3s. 4d. to 3s. 8d. per lb., as to quantity.

BENZOIC ACID (B.P.).—Fair demand, market steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 1d. per lb., ex store, as to quantity.

BROMIDES.—Inquiry continues quite good, and the makers' and dealers' prices are maintained: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; smaller quantities, 2s. 1d. per lb.; potassium, B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; small quantities, 1s. 10d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; smaller quantities, 2s. per lb. net, without engagement. Special prices for larger quantities.

CAFFEINE.—Business is limited and at very keen prices: pure alkaloid, 5s. 6d. to 6s. per lb.; citrate, 4s. 3d. to 4s. 10d. per lb., as to quantity.

CALCIUM LACTATE.—Competition for a moderate amount of business: spot, one cwt., 1s. 4½d.; 56 lb., 1s. 2d.; 28 lb., 1s. 3d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices are well maintained: duty-paid crystals, in 14 lb. free containers, five cwt., 3s. 4d.; one cwt., 3s. 5d.; 56 lb., 3s. 6d.; 28 lb., 3s. 7d.; 14 lb., 3s. 8d. per lb.; 28 lb. jars one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Home trade price quoted by British makers continues at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at about the same figure.

COCAINE.—Makers' prices for home trade are as follows: hydrochloride, 25 oz., 20s. 11d.; 16 oz., 21s. 7d.; and less, 22s. 3d. per oz.; pure, 25 oz., 22s. 1d.; 16 oz., 23s. 8d.; less than 16 oz., 24s. 4d. per oz.; 1 oz. tins, 2½d. per oz. extra. Export prices vary as to destination.

CREAM OF TARTAR.—Makers' quoted price is at the reduced figure notified last week of 85s. per cwt., less 2½ per cent., for 99 to 100 per cent. material, nominal and without engagement. Dealers are quoting about equal terms.

CRFOSOTE (B.P.).—The market is steadier this week, with quantities in 25 kilo demi-johns at 1s. 11d. per lb.; smaller parcels, up to 2s. 4d. per lb.

CRFOSOTE CARBONATE.—The market is dull, with spot varying from 8s. 6d. up to 10s. per lb.

ETHER (METHYLATED).—Makers' prices continue at former rates: s.g., 0.750, 1s. 1½d.; 0.735, 1s. 2d.; 0.730, 1s. 2d.; 0.725, 1s. 4d. per lb., in w-quarts; 12 w-quarts, halfpenny less, and packed in drums or carboys 1d. less.

FERRI QUININE CITRATE.—Makers' prices are as follows:—

	Less than	Less than
	100 oz.	100 oz.
	Per oz.	Per oz.
100-oz. tins	10½d.	—
25-oz. tins...	11d.	11½d.
16-oz. bottles	11½d.	11½d.
8- & 4-oz. bottles	11½d.	11½d.
1-oz. bottles	11½d.	11½d.
½-oz. bottles	11½d.	11½d.

Special prices for larger quantities.

GUAIACOL CARBONATE.—There are some comparatively cheap sellers on spot in the region of 8s. to 8s. 9d. per lb., as to quantity. Material to come forward would cost about 9s. 3d. to 9s. 9d. per lb. landed.

HEXAMINE.—Some very fair business continues in this product, with competition evident: free running crystals, spot,

ten cwt., 2s. 2½d.; two cwt., 2s. 4d.; one cwt., 2s. 4½d.; smaller quantities, up to 2s. 6d. per lb.

HYDROQUINONE.—This market is very steady at makers' and dealers' prices: ten cwt., 5s. 7½d.; five cwt., 5s. 8½d.; two cwt., 5s. 9d.; one cwt., 5s. 9½d.; 56 lb., 5s. 10½d.; 28 lb., 6s. 0½d.; 14 lb., 6s. 2½d. 7 lb., 6s. 4½d. per lb., carriage paid.

LACTIC ACID (B.P.).—Prices quoted for a limited business are keen: quantities in carboys, 1s. 5d. to 1s. 6d.; in winchesters, 1s. 8d. to 1s. 9d. per lb., as to quantity.

METHYL SALICYLATE (B.P.).—Market continues firm, with a good business passing: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; small quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' prices on spot are steady, business moderate: two cwt., 20s.; one cwt., 20s. 9d.; 56 lb., 21s. 4d.; small parcels, 22s. per lb.

METOL.—The market is unchanged and rather quiet; 56 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 9d. per lb., in tins, bottles extra. Wholesale distributors' prices for smaller quantities at higher prices.

MILK SUGAR.—A fair business is being done. Continental quoted at steady rates: one ton, 53s.; ten cwt., 54s. 6d.; two cwt., 56s. per cwt., in two-cwt. cases.

MUSK XYLOL.—The advance recorded last week to 8s. per lb. is maintained. Ketone, 33s. per lb.; Ambrette, 30s. per lb., with bonus according to quantity.

PARAFORMALDEHYDE.—A little more inquiry, with quoted prices maintained: 100 per cent. powder, quantities in kegs, 1s. 2½d. to 1s. 3½d.; smaller parcels up to 1s. 7d. per lb.

PARALDEHYDE.—There is competition for a rather slow demand: quantities in demijohns, 1s. to 1s. 1d.; winchesters, 1s. 3d. per lb.; higher prices for small quantities.

PHENACETIN.—Market is inclined to be a little steadier, and prices are not so keen: crystals, ten cwt., 4s. 6d.; five cwt., 4s. 7d.; two cwt., 4s. 8d.; and less, 5s. per lb.

PHENAZONE.—Spot material is still offering well below cost of replacement; but the market is inclined to be steadier; business is fair: spot, crystals, ten cwt., 9s. 11d.; five cwt., 10s. 2d.; two cwt., 10s. 4d.; and less, 11s. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—The expected advance in price has now been notified as from Friday last, with an increase in the scale of 8d. per lb.: two cwt., 4s. 7d.; one cwt., 4s. 8d.; 28 lb., 4s. 11d.; 14 lb., 5s. 2d.; 7 lb., 5s. 5d.; smaller parcels, up to 5s. 8d. per lb.

PHENYL ETHYL BARBITURIC.—Quoted prices show no further change, and cheap material is not so much in evidence: one cwt., 36s. 9d.; 56 lb., 38s.; 28 lb., 39s. 3d.; smaller quantities, 40s. 6d. per lb., in 2 lb. bottles, carriage paid; small lots in different packing at higher prices.

POTASSIUM PERMANGANATE (B.P.).—A steady demand for small quantities; dealers' prices maintained: quantities in two-cwt. drums, 8½d. to 9½d.; druggists parcels, 9½d. to 10d. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Spot offers are irregular and well under cost of replacement in the region of 5s. per lb. To come forward, about 6s. to 6s. 3d. per lb.

QUININE SULPHATE.—Last week's reduced price is maintained at 2s. 5d. per oz.; carriage paid on bulk quantities.

RESORCIN.—Market is steady, business fair: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5d. 3d.; 7 lb., 5s. 6d.; less than 7 lb., 6s. per lb.

SACCHARIN.—Convention price is steady for 550, 1 lb., 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Home makers quote unchanged, market steady and fairly busy: one ton, 1s. 7d.; ten cwt., 1s. 7½d.; five cwt., 1s. 8d.; one cwt., 1s. 8½d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s. per lb.; and higher prices for smaller quantities.

SALOL.—Dealers' quoted prices are unchanged; business is slow: spot, crystals, two cwt., 5s. 9d.; one cwt., 5s. 11d.; 56 lb., 6s.; smaller parcels, up to 6s. 1½d. per lb.; powder 2d. per lb. extra.

SODIUM BENZOATE (B.P.).—Business continues on a fair scale at competitive prices. Quantities, about 1s. 8d. and up to 1s. 11d. per lb. for small quantities.

SODIUM DIETHYLBARBITURATE.—Quotations are steadily maintained, and business is fair in small lots: spot, one cwt., 12s. 9d.; 56 lb., 13s.; 28 lb., 13s. 3d.; 14 lb., 13s. 6d.; 7 lb., 13s. 9d.; smaller parcels, up to 14s. per lb.

SODIUM SALICYLATE (B.P.).—Business continues on fair lines, with makers' and dealers' prices very steady: home trade, powder, two tons, 2s.; one ton, 2s. 0½d.; ten cwt., 2s. 1d.; five cwt., 2s. 2d.; one cwt., 2s. 3d.; 28 lb., 2s. 4d.; 14 lb., 2s. 6d.; 7 lb., 2s. 7d.; 1 lb., 2s. 8d. per lb., with crystals one penny per lb. extra.

STRYCHNINE.—Makers' prices are again reduced, as follows:—

		35 oz.	350 oz.	1,000 oz.
Crystals ...	per oz.	2/8½	2/8	2/7½
Powder ...	per oz.	2/7½	2/7	2/6½
Soluble ...	per oz.	2/2½	2/2	2/1½

1 oz. bottles included.

SULPHONAL.—Dealers' spot prices are steady; business in small lots being done: crystals, two cwt., 16s. 2d.; one cwt., 16s. 8d.; 56 lb., 17s.; smaller parcels, up to 18s. per lb., with powder 2½d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—British makers' quoted price for home trade is unchanged at 10½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at about the same price.

THEOBROMINE.—Business is slow and competition is very keen; pure alkaloid, 5s. to 5s. 4d. per lb.; sodium salicylate, 4s. 9d. to 5s. per lb., as to quantity.

THYMOL.—Quoted prices are none too steady, and business remains poor: synthetic, fine white, one cwt., 5s. 6d.; 56 lb., 5s. 7½d.; 28 lb., 5s. 9d. 14 lb., 6s. per lb.; ex ajowan seed, one cwt., 7s. 3d. per lb.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

VANILLIN.—A very fair inquiry is being received, and quoted prices are keeping about steady: 100 per cent., one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.

Crude Drugs, etc.

ACONITE ROOT.—Napellus is quoted on spot at 67s. 6d. and Japanese at 57s. 6d. per cwt.

AGAR AGAR.—The shipment market is steadier; business, however, remains rather poor: spot, Kobe No. 1, 2s. 4½d.; No. 2, 2s. 3d.; Yokohama No. 1, 2s. 3d. per lb.; shipment, Kobe No. 1, 1s. 9½d.; No. 2, 1s. 7½d.; Yokohama No. 1, 1s. 8½d. per lb. c.i.f.

ANTIMONY.—The market is quoted dearer. Chinese crude is nominal. Chinese oxide, spot, £28; shipment, £23 10s. c.i.f.

ARNICA FLOWERS.—Spot supplies of Montana are available at 8½d. per lb.

BALSAMS.—There is a fair demand for small lots of *Tolu* with the price steady at 3s. 4d. to 3s. 5d. per lb. *Peru* is quoted at about 4s. 7d. to 4s. 8d. per lb.

BELLADONNA.—Spot supplies of root are reported to be rather short; fair quantities to arrive quoted at 57s. 6d. per cwt., landed.

BUCHU.—Business on spot does not amount to much, but the market is steady and supplies are limited. Fair green round, from 1s. 1½d.; fair to yellowish, 1½d. to 1s. Ovals, from 8½d. to 8½d. per lb., as to colour.

CAMPHOR.—There is a marked lack of demand for this article; market quoted about unchanged: spot, slabs, 2s. 3d.; flowers, 2s. 3d.; tablets, 2s. 9d. per lb.; shipment, slabs, 1s. 10½d.; flowers, 1s. 10½d.; tablets, 2s. 2d. per lb. c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CASCARA SAGRADA.—This market keeps fully steady and reports from origin suggest a shortage of last year's crop of peel. There seems to be a tendency for this product to move to higher figures: spot, 1932 peel, 63s. 6d. to 65s. 6d. per cwt.; 1931 peel, 71s. per cwt. Shipment offers are being restricted.

CELERY SEEDS.—The spot value of small quantities is given as 2s. 2s. per lb.

CHAMOMILES.—There has been more inquiry on spot and the market is steady. Quoted from 135s. to 160s. per cwt., as to colour.

CINCHONA CHIPS.—The demand has been good and supplies are short: quoted on spot from 10½d. per lb.

CLOVES.—Business has been slow; market again slightly easier but steadier at the close: Zanzibar, spot, 6½d.; shipment, January-February, 5½d. per lb. c.i.f. Madagascar, spot, 6d. per lb.

The landings of Zanzibar in London during the week ended January 14 were *nil* and the deliveries 23, leaving a stock of 1,146. From January 1 to date landings of Zanzibar have been *nil* and the deliveries 28. Landings of Madagascar for the week ended January 14 were *nil* and the deliveries 5, leaving a stock of 1,129. Landings of Madagascar this year to date have been *nil* and the deliveries 27.

COCOA BUTTER.—Market has been dull. Prime English is quoted from 9½d. to 10½d. per lb., as to quantity.

COCONUT (DESICCATED).—The recent advance is maintained but business has been quieter: spot, fine, 28s.; medium, 25s. 9d.; shipment, halves, January-February, 24s. per cwt. c.i.f.

COD-LIVER OIL.—Business, as is usual at this time of the year, is slow, but the market is steady with finest Lofoten steam refined non-freezing medicinal oil at 90s. to 91s. per barrel, c.i.f.; spot, about 108s. per barrel, ex store, duty paid. Some brands may be cheaper. Fishing has not yet commenced.

COLCHICUM.—Dealers are offering root on spot at 60s. per cwt.; seeds at about 2s. 11d. per lb., spot.

GELATIN.—A fair volume of inquiry is being received and the market is keeping steady: spot, gold leaf, 2s. 2d.; silver leaf, 2s.; bronze leaf, 1s. 9d.; thin leaf, 1s. 8d. per lb., in cwt. lots.

GENTIAN.—The spot price is steady at 55s. per cwt., with supplies very limited.

GINGER.—Quoted prices are unchanged, business rather slow. West African, spot, 20s.; for arrival, 17s. 6d. per cwt. c.i.f.

GRAINS OF PARADISE.—Spot supplies are available and quoted at about 45s. per cwt.

GUM ACACIA.—Following on the recent improvement the shipment market has fallen back sharply. Spot is steady and a moderate business is being done: spot, Kordofan cleaned sorts, 37s. 9d.; natural, 36s. 3d.; bleached, 77s. 6d. per cwt., shipment, Kordofan cleaned sorts, 35s. 6d.; natural 34s. per cwt. c.i.f.

HONEY.—Occasional business is being done and the limited spot stocks on hand are gradually being depleted. The market is fully steady: Jamaican, pale smooth, about 55s.; amber, 37s. 6d. to 42s. 6d., as to colour; manufacturing quality, about, 32s. to 33s. per cwt. Cuban, pale, 37s. to 40s. per cwt.

HYDRASTIS.—Some small business has been transacted with dealers quoting spot in the region of 4s. 6d. per lb.

INSECT FLOWERS.—Spot supplies of closed Dalmatian flowers are quoted at about 100s. per cwt.

IPCACUANHA.—There seems to be hardly any interest in this product and the market is depressed. Matto Grosso, spot, from 5s. to 5s. 3d. per lb.; Minas, from 4s. 5d. to 4s. 7d. per lb.

MALE FERN EXTRACT.—The spot quotation is at about 4s. 7d. to 4s. 8d. per lb., as to quality.

MENTHOL.—The shipment market is steadier and shows some recovery, and there is a fair inquiry for goods afloat and for shipment: K/S brands, spot, 17s. 6d., and slightly less for bulk quantities; afloat, 15s. 4½d.; shipment, January-March, 15s. 4½d. per lb.

MERCURY.—Spanish-Italian for shipment is quoted at 35 dollars per bottle, f.o.b. Continental port; spot, 36 dollars per bottle, ex wharf.

OPTUM.—The market has been rather slack with shipment quoted slightly easier at 1s. 1d. per unit, landed and duty paid, for bulk quantities; smaller lots, 1s. 2d. to 1s. 3d.

PARSLEY SEEDS.—Dealers are offering spot supplies at about 32s. 6d. per cwt.

PEPPER.—There has been a little more interest in the market and values are steadier: Lampong, spot, 6d.; shipment, January-March, 4½d.; March-May, 4½d. c.i.f. Tellicherry, spot, 6½d.; shipment, January-March, 43s. 6d. c.i.f. Aleppy, spot, 6d.; January-March, 42s. c.i.f. White Muntok, spot, 6½d.; shipment, January-March, 5½d.; March-May, 5½d. per lb. c.i.f.

PIMENTO.—Values are about steady, business has been slow: spot, 3½d. per lb.; shipment, January-March, 23s. 9d. per cwt. c.i.f.

QUILLAIM BARK.—Supplies of crushed bark on spot are quoted at about 35s. per cwt.

RUBBER.—After a period of quietness there has been more interest in this commodity and the market is steadier: U.K. stocks total 99,798 tons, compared with 125,873 tons a year ago. Standard ribbed smoked sheet, spot, 2½d.; February, 2½d.; March, 2½d.; April-June, 2½d.; July-September, 2½d.; October-December, 2½d. per lb.

SAFFRON.—Market is steady, with the usual small business passing: spot, prime B.P., 61s. 6d.; extra B.P., 57s. 6d.; super B.P., 54s. 6d. per lb., and slightly less for bulk quantities.

SARSAPARILLA.—Business is moving slowly in limited quantities: market about unchanged; spot, native mixed colours, 1s. 1d. to 1s. 2d.; grey Jamaican, 1s. 9d. to 1s. 10d. per lb., as to quantity.

SEEDS.—**ANISE.**—Spanish, 52s. 6d.; Bulgarian, 35s.; Levant, nominal, 34s. spot. **CANARY.**—Market unchanged, spot Mazagan sold at 12s.; Tangier quoted at 11s. and Kenitra sold 10s. **LINSEED.**—Market firm: Mazagan, spot, 15s. 6d.; Morocco, 13s. 6d. **CORIANDER.**—Morocco 1929 crop, 16s. and wormy 13s. 6d. to 14s. Wormy has been sold c.i.f. London at 9s. 6d. for prompt shipment. **CUMIN.**—Malta selling at 35s. spot, Morocco remains firm 33s. spot and 31s. c.i.f. **FENUGREEK.**—Morocco, 12s. 6d. spot. **CARAWAY.**—Dutch, 33s. 6d. duty paid, 29s. quoted f.o.b. Rotterdam. **MUSTARD.**—English, 24s. to 31s. per cwt. according to quality.

SENEGA.—Business has not been good. Spot is rather easy for bulk quantities at 2s. 1d., with shipment rather less than 2s. per lb. c.i.f.

SENNA.—The spot market is about steady, but business is on the small side. On spot there is a scarcity of finest hand-picked Alexandrian pods, which are wanted. Medium grades are in ample supply and quoted from 1s. 6d. to 2s. 6d., and manufacturing pods from 6d. to 8d. per lb. Tinnely hand-picked pods quoted from 6d. to 7d. per lb., as to quality, and f.a.q. from 4d. to 4½d. spot. In Tinnely leaves good bold green are at 6½d. to 7d. on short supply; medium bold at 5d., and small to medium at 2½d. to 3½d., as to quality. Manufacturing, 2½d. per lb.

SHELLAC.—The market has been neglected so far this week. Spot, standard TN orange, 55s.; fine orange, 65s. to 127s. 6d.; pure button, 70s. per cwt. For delivery, TN, March, 46s. 6d.; May, 47s. 6d. per cwt. For arrival, TN, January-February, 44s. 6d.; February-March, 44s. 6d. per cwt. c.i.f.

VALERIAN ROOT.—Dealers' prices are rather cheaper at about 62s. 6d. per cwt. spot.

WAX (VARIOUS).—The markets have been steadier this week and there has been a little more inquiry received.—**CARNAUBA,** fatty grey and chalky grey is steadier at 85s.; medium yellow is steady at 140s.; fine yellow is unchanged at 155s. **CANDELILLA** steady at 75s. per cwt. **SPERMACEI** steady at 9½d. per lb. spot. **PARAFFIN** is about steady at 22s. 6d. to 50s. per cwt. as to melting point. **CERESIN** is quoted from 35s. to 80s. per cwt. as to colour and melting point. **BEES'** has been meeting with a moderate demand; bleached, discs, £7 10s.; slabs, £7 2s. 6d.; yellow refined is very steady at £5 15s.; yellow crude, 97s. 6d. per cwt. spot.

Essential Oils, etc.

RATHER more business has been done this week, and conditions continue fairly steady. Sicilian new crop hand-pressed lemon is inclined to be steadier for shipment. Bergamot shows a sharp recovery from recent low levels. Japanese dementholised peppermint has been inquired for and prices are better. The shipment market for American peppermint is very steady and tends to advance.

ALMOND.—Makers' prices for English sweet oil are steady at 2s. 7d. per lb. for cwt. lots, and up to 2s. 9d. for small lots.

ANISE (STAR).—The shipment market is steadier. Business is still slow: spot, "Red Ship," in leads, 1s. 10d.; in tins, 1s. 7½d.; in drums, 1s. 7d.; shipment, in leads, 1s. 7½d.; in tins, 1s. 6½d.; in drums, 1s. 6d. per lb., c.i.f.

BERGAMOT.—Reports to hand from origin indicate much steadier conditions, but as yet there is no substantial recovery in values, which are at present at from 6s. 10½d. per lb. c.i.f. for bulk quantities. Spot is also better, with few, if any, sellers below 7s. 6d. to 7s. 9d. per lb. for quantities.

It is reported from an unofficial source that the accumulated stocks of 600,000 Sicilian pounds of oil of the Consortium have been taken over by the Government, for sale locally through the liquidation committee of the Consortium, for purposes other than perfumery. It is stated that the oil of the Consortium, so treated as to make its use as a perfume impossible, will be marketed chiefly for use in the manufacture of disinfectants and ship paints.

BOIS DE ROSE.—There is a lack of information on this product from origin regarding Brazilian; spot is limited in supply, with the price from 5s. 6d. per lb. Cayenne continues nominal, with nothing of importance on the market.

CAJUPUT.—The spot market is now quoted down to 2s. 4d. to 2s. 6d. per lb., as to quantity.

CANANGA.—This market continues fully steady, but business is not of much account. Spot, from 9s. 6d. to 9s. 9d. per lb., as to quantity.

CARAWAY.—A moderate business moving, with prices for Continental twice-rectified about 7s. 6d. per lb., and slightly less for bulk quantities.

CASSIA.—Shipment offers continue at attractive figures in the neighbourhood of 2s. 10½d. per lb. c.i.f. Spot is steady at 3s. 8d., and there does not appear to be much on offer.

CEDARWOOD.—The market is steady and business is fair. Colonial, spot, 1s. 8½d. in drums and 1s. 9½d. per lb. in tins.

American, spot, about 1s. 10 $\frac{1}{2}$ d. in drums, with smaller quantities up to 2s. 1d.; shipment 1s. 8 $\frac{1}{2}$ d. per lb. c.i.f.

CINNAMON LEAF.—Inquiry is rather slow, market steady with spot at about 3s. 2d. per lb. in tins, and shipment at 2s. 4d. per lb. c.i.f. in drums.

CITRONELLA.—The spot position of Ceylon and Java is steady, while shipment is rather easier. Ceylon, spot, 2s. 1d., and slightly less for good quantities; shipment, now about 1s. 10d. per lb. c.i.f. Java, spot, 2s. 10 $\frac{1}{2}$ d. to 2s. 11d.; shipment, 2s. 5 $\frac{1}{2}$ d. per lb. c.i.f.

CLOVE.—English oil is attracting attention, with offers at about 4s. 3d. to 4s. 6d. per lb., as to quantity. Madagascar, spot, 3s. 8d.; shipment, 3s. per lb. c.i.f.

EUCALYPTUS.—The market is still rather dull. Australian, 70 to 75 per cent., about 1s.; 80 to 85 per cent., about 1s. 1d. per lb., and a shade less for bulk quantities. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GERANIUM.—Bourbon for shipment is well held up to 21s. 4d. per lb. c.i.f., and spot is steady at 23s. per lb., although there are some cheaper sellers. Algerian is maintained at 23s. 6d. per lb. spot.

GINGERGRASS.—Spot offers are now down to about 7s. 6d. to 7s. 9d. per lb., as to quantity.

JUNIPER BERRY.—Business has been slow in this article. Spot, about 4s. to 4s. 2d. per lb., as to quantity.

LAVER.—Interest in this market seems to have been small this week; prices for best brands of new crop French are maintained, as follows: 50 to 52 per cent., 10s. 6d. to 10s. 9d.; 40 to 42 per cent., 9s. 3d. to 9s. 6d.; 38 to 40 per cent., 8s. 9d. to 9s.; 36 to 38 per cent., 8s. 3d. to 8s. 6d.; 30 to 32 per cent., 7s. 6d. to 7s. 9d. per lb., delivered, and slightly less for bulk quantities.

LEMON.—Conflicting reports from origin are being received. Most offers for shipment of Sicilian hand-pressed, new crop, are from 4s. to 4s. 8d. per lb. c.i.f. Spot remains neglected at about 4s. 3d. to 5s. per lb. Californian, in large drums, 48 cents; in small drums, 49 cents per lb., spot.

LEMONGRASS.—A steady inquiry, with dealers' prices maintained. Spot, about 2s. 3d. to 2s. 4d. per lb., as to quantity; shipment, about 2s. 1 $\frac{1}{2}$ d. to 2s. 2d. per lb. c.i.f.

LIME.—Short supplies on spot and very little available at origin is keeping the landed value of genuine West Indian distilled well up to 38s. 6d. to 39s. per lb.

MANDARIN.—Occasional small business is being done, with spot quoted at about 16s. per lb.

ORANGE.—The French Colonial product continues to dominate the shipment position, with prices in the region of 2s. 10 $\frac{1}{2}$ d. per lb. c.i.f. for fair quantities and less for bulk lots. Sicilian, new crop, sweet, is at about 5s. 3d. to 5s. 6d. per lb. c.i.f., with very little doing; spot, about 6s. to 6s. 3d. per lb., as to quantity. Californian is unchanged on quotation at 50 cents per lb. for single cases and 45 cents for two or more cases.

PALMAROSA.—The spot value is well up to the former rates of 8s. 3d. to 8s. 6d. per lb., as to quantity.

PATCHOULI.—This market has been rather quiet: spot quoted from 8s. 4d. to 8s. 8d., and shipment at about 8s. 1 $\frac{1}{2}$ d. per lb. c.i.f.

PEPPERMINT.—The Japanese product has attracted a little more attention this week, and the market tends to be steadier. Spot is quoted at about 6s. 4d.; afloat, for which there is fair inquiry, is at 6s. 2d. January-March shipment is quoted at 6s. 3d. per lb. c.i.f. Reports indicate a definitely steady shipment market for natural American oil, with the quotation at least 1 dollar 92 $\frac{1}{2}$ to 95 cents per lb., in drums, c.i.f.

PETITGRAIN.—Quoted values are steady on a limited spot supply at 5s. to 5s. 2d. per lb., as to quantity.

ROSEMARY.—This article is slightly cheaper, with quantities on spot at 1s. 9d. and smaller lots up to 1s. 10 $\frac{1}{2}$ d. per lb.

SANDALWOOD.—The official scale of prices for genuine East Indian is quoted from 24s. to 25s. per lb., as to number of cases.

SASSAFRAS.—Natural oil is quoted up to 6s. per lb., while other offers are at about 4s. to 4s. 6d. per lb.

SPEARMINT.—There is not much call for this article at the moment; spot is in the region of 7s. 6d. to 7s. 8d. per lb., as to quantity.

SPIKE.—This market is a little dearer, and seems to be very steady, with Spanish now at 3s. 3 $\frac{1}{2}$ d. to 3s. 5d. per lb., as to quantity.

WINTERGREEN.—Dealers are offering spot supplies at about 7s. to 7s. 6d. per lb., as to quantity.

WORMSEED.—Business on spot is small; quoted at about 13s. 3d. to 13s. 6d., and shipment is at about 12s. per lb. c.i.f.

Industrial Chemicals, etc.

PRODUCTS in this market continue mostly quite steady on quotation and it is evident that a good deal of the business is going to home makers. Formaldehyde is a keen market. The international convention prices for lead products are unchanged. ACETIC ACID continues steady, with a limited demand; 80 per cent., technical, £38 5s.; 80 per cent. pure, £39 5s. per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £59, in glass demijohns; glacial, in barrels, £48 per ton, carriage paid in U.K. ACETONE B.G.S.—Business is fair with the market quoted unchanged; £65 to £68 per ton, in drums, carriage paid in U.K. AMMONIA (ANHYDROUS).—A steady business in limited quantities is being done, market unchanged: 99.95 per cent. material, 11d. to 1s. 3d. per lb., in loaned drums, carriage paid, as to quantity. AMMONIUM CHLORIDE.—The market is rather dull and prices for quantities are keen: grey galvanising, £19 to £20 per ton, in casks, ex store; slightly less for contracts. ARSENIC.—Continental material is quoted slightly cheaper; the demand is small: Continental, £19 10s. per ton, ex wharf, London; Australian, £18 per ton, c.i.f. Liverpool. BLEACHING POWDER.—Makers' price for home trade is steady: 35 to 37 per cent., chlorine, £8 15s. per ton, in softwood casks, carriage paid, in four-ton lots. BORAX.—Makers' prices are steady, as follows: commercial granulated, £15 10s.; crystals, £16 10s.; powdered, £17; extra fine powder, £18; B.P. crystals, £24 10s.; powdered, £25; extra fine, £26 per ton, packed in one-cwt. bags, carriage paid in Great Britain. BORIC ACID.—Makers' prices for home trade are steady: commercial granulated, £26 10s.; powdered, £28 10s.; extra fine, £30 10s.; large flakes, £39; B.P. crystals, £35 10s.; powdered, £36 10s.; extra fine, £38 10s. per ton, for one-ton lots and upwards in free one-cwt. bags, carriage paid in Great Britain. FORMALDEHYDE.—This market is competitive for quantities; business fair: 40 per cent., by volume, £28 to £28 10s. per ton, in casks, ex store; lower prices for big quantities. ISOPROPYL ALCOHOL.—A fair business in small lots is being done at keen prices: first quality, ex acetone, 11s. 3d. to 12s. per gallon, in drums, carriage paid; ex "cracked petroleum" qualities, 9s. to 9s. 6d. per gallon. LEAD ACETATE.—There is very little inquiry on the market: brown, £30 10s.; white, £32 10s. per ton, in casks, ex store. OXALIC ACID.—Business is satisfactory and the market is steady. Quantities, in casks, £48 per ton; smaller lots, 53s. to 57s. 6d. per cwt. in kegs, ex store. LITHOPONE.—Business is on the small side, market about steady; 30 per cent., Continental red seal, £20 per ton, ex store. POTASH CAUSTIC (88 to 92 per cent., solid).—Dealers continue to quote £38 10s. to £40 10s. per ton, in drums, ex store. The demand has been disappointing. POTASSIUM CARBONATE meets with a slow demand, dealers' prices about steady: 90 to 92 per cent., £31 10s. per ton; 96 to 98 per cent., £32 7s. 6d. per ton, in casks, ex store; lower prices for contracts. POTASSIUM CHLORATE.—A moderate business passing: ton lots, £32 12s. 6d.; small parcels, 4 $\frac{1}{2}$ d. to 5 $\frac{1}{2}$ d. per lb., as to quantity. POTASSIUM PERMANGANATE.—Dealers are receiving good inquiry for limited quantities: commercial quality, in two-cwt. drums, 8 $\frac{1}{2}$ d. to 9d. per lb., ex store, as to quantity. POTASSIUM PRUSSIAN is steady and business is moving on modest lines: yellow, £72 7s. 6d. to £77 per ton, as to quantity. RED LEAD.—Convention prices are steady, business rather slow: English, 5/10 cwt., £25 10s.; 10 cwt./1 ton, £25 5s.; 1 1/2 tons, £25; 2 1/5 tons, £24 10s.; 5/20 tons, £24; 20/100 tons, £23 10s.; over 100 tons, £23 per ton, less 2 $\frac{1}{2}$ per cent., carriage paid; non-setting red lead, 10s. per ton dearer. Continental material £1 per ton cheaper. SAL AMMONIAC.—More inquiry on the market with prices about steady: dog-tooth crystals, £35; medium, £31; fine white crystals, £17 10s. per ton, in casks, ex store; slightly less for contracts. SALTCAKE meets with some demand and is steady as quoted at 62s. per ton, in minimum truck lots, carriage paid. SODA CAUSTIC.—Makers' prices for home consumption are steady: 70 to 72 per cent., £13 12s. 6d.; 76 to 77 per cent., £14 per ton, carriage paid on contracts; spot, 10s. per ton extra. SODA CRYSTALS (CARBONATE).—Business is about average, makers' home trade price unchanged at £5 5s. per ton, in bags, f.o.r. makers' works. SODIUM ACETATE.—Business shows some improvement; market steady: £22 per ton, in casks, ex store. SODIUM BICARBONATE.—Makers' home trade price is unchanged: refined, in bags, £10 10s. per ton, carriage paid. SODIUM CHLORATE.—Rather more inquiry on the market. Bulk quantities from £31 10s. per ton; smaller lots from 3 $\frac{1}{2}$ d. to 4d. per lb. SODIUM PRUSSIAN.—A steady business; quantities, 4 $\frac{1}{2}$ d. per lb.; smaller parcels, 4 $\frac{1}{2}$ d. to 5 $\frac{1}{2}$ d. per lb., ex store. WHITE LEAD.—Convention prices are steady, business has been slow: drv., English, less than 5 tons, £37 10s.; 5/15 tons, £32 10s.; 15/25 tons, £32; 25/50 tons, £31 10s.; 50/200 tons, £31 per ton, less 5 per cent., carriage paid; Continental, £1 per ton cheaper. Ground in oil, English, 1/5 cwt., £47; 5/10 cwt., £45; 10 cwt./1 ton, £44 10s.; 1/2 tons, £43 10s.; 2/5 tons, £42; 5/15 tons, £39; 15/25 tons, £37 10s.; 25/50 tons, £37; 50/100 tons, £36 10s. per ton, less 5 per cent., carriage paid. Continental material £2 per ton cheaper.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The "Ultimate Causation" of Disease

SIR,—When Mr. Wilfred Trotter speaks of the "ultimate causation of disease" he digs very deeply. Every intelligent man, lay as well as medical, can usually form some opinion of the proximate cause of most diseases, but in many cases even the best surgeon or physician has not the faintest idea of what the ultimate cause may be. Mr. Trotter says "we can enumerate only six agents of disease:—Injury, malformation, defect of diet, poisoning, parasitic infection, neoplasm." (By the way, does he draw a distinction between "agent" and "cause"?) In my opinion Mr. Trotter has missed one most important agent or cause of many diseases, namely, psychological disturbance. For instance, he speaks of that "common and serious disease" diabetes, of which he says that notwithstanding all our investigations and refinements of method "we still know nothing about its ultimate causation." This is exactly what Bristowe said more than half a century ago of diabetes: "in most cases no cause whatever can be assigned or suggested." As you have published a lecture (an absorbingly interesting lecture, I may say) of a distinctly medical character, an ignorant layman may be allowed to discuss it. I have at the moment in mind four cases of diabetes. In three of these the trouble followed accidents—one the amputation of a limb, another a serious fracture, and the third a slight accident which kept the man in bed a few weeks. All four cases were men round about sixty years of age, and the three mentioned were absolutely dependent for their daily bread on their being able to carry on their work. But there are thousands of cases of accident every year, not one of which is followed by diabetes; why should these three men be attacked? The fourth man suffered no accident, but he had a severe disappointment. This did not affect his business or his family life, but he allowed himself to worry over it, and the result was the onset of diabetes. But thousands of men lose fortunes who never develop diabetes. My conviction is that the nerve system which normally controls metabolism was in these four men upset by mental worry, and that this worry was the ultimate cause of their disease. To quote again, Bristowe pointed out that diabetes "has been attributed to exposure, habits of life, injuries of various kinds and mental disturbance." I believe that the psychological factor ought to receive much closer investigation in all these cases. In young people, where heredity may be a factor, the case is of course quite different. With men of mature years diabetes need never be a fatal disease, and all the four I have referred to are to-day well and happy, but with them all sugar is taboo.

I am, etc.,

NORTH BRITON (23/1).

"Rush" Dispensing

SIR,—One result of the influenza epidemic is that chemists at last have almost more work than they can deal with, especially when their own staff is depleted by illness. I write feelingly, having myself dispensed upwards of 200 N.H.I. scripts during the past week-end. Exceptional stress of work calls for exceptional methods to cope with it; and in dispensing speed becomes as important as accuracy. It is permissible, I think, to use concentrated stocks of quickly moving mixtures, and also of such salts as sod. sal., pot. bic., pot. brom., and pot. acet. A 1 in 8 solution is a convenient strength; a greater concentration than this seriously increases the risk of inaccuracy in measuring. Advantage should be taken of any lull in the flow of scripts to replenish these stock mixtures and solutions, and to re-order drugs, etc., that are running low, bearing in mind that normal stocks are quite inadequate to meet the demands of an epidemic. The staff should be warned to exercise special care in giving out the medicines. Usually there are several

different scripts for persons of the same name, and to avoid confusion between the Smiths, Browns and Johnsons the prescription-form should never be separated from the completed medicine until the latter is handed over to the patient. It is a simple matter then to verify the name by the address. I always make an effort to stamp and sort out the previous day's scripts each morning. If this job is left to the end of the month it becomes a colossal task. I use half-a-dozen cardboard boxes to hold the forms of prescribers that recur most frequently, and an additional box for the odds and ends. Then, at the month's end, there is little to do but count the scripts—and look forward to receiving the cheque in March.

Yours faithfully,

RUSHED (24/1).

Referring to the Prescriber

SIR,—Many years of dispensing the prescriptions of doctors, from the ordinary practitioner to the specialist, convinces me that the average doctor is very grateful when referred to regarding any ambiguity in his prescriptions; and, after all, that is at it should be, for it is in the doctor's interest that his prescription should be correctly dispensed. More than once I have been told by a medical man that he would not dream of trying to tell a chemist how to dispense his prescriptions (this was in reference to what would have been an unsightly preparation); "I write the ingredients and leave it to the chemist to present an elegant preparation," he said. I remember having to ring up a curious writer (a very clever doctor) regarding an ingredient. He asked, "What do you think it is yourself?" I told him, and he said, "Well, put that in." I make it a point never to refer to the prescriber unless I am absolutely unable to decipher. It is a good plan to put off the customer for an hour or so; second reading often reveals the missing link. It is also wise to ask the opinion of other members of the staff; I have known an apprentice to throw immediate light on a prescription problem.—Yours, etc.,

COMMON SENSE (16/1).

SIR,—Your correspondents "Tolerant" and "Rural Chemist" comment on ambiguous prescriptions (*C. & D.*, January 14, p. 47), but it is evident, from the examples they give, that the conditions under which panel chemists work differ a good deal in various localities. In my area Form B was discontinued several years ago, and the prescriptions go into the pricing bureau on the first of each month, so there is no record to turn to except in the case of D.D.A. preparations. Besides, what would "Tolerant" do if it was the first time the customer had brought in a prescription? I am situated close to the boundaries of three panel committees and get customers from them all. It is impossible for me to be familiar with the idiosyncracies of all the doctors in these areas, and in addition there is a good deal of change in the personnel of their assistants or locums. "Rural Chemist" says that when reference to the prescriber is necessary he offers to send the medicine; in my case some of my customers come from long distances, some work near and live away, and they generally expect to wait for the medicine, so that sending it is out of the question; and when, as frequently happens, the query arises outside surgery hours and the doctor is not to be found, the position is very awkward. Tolerance can be carried too far until it becomes subservience—probably one of the reasons why chemists have no status compared to that enjoyed by other professions. Why should not a prescriber be expected to write his prescriptions in such a way that they are legible?

Yours truly,

NOT INTOLERANT (23/1).

Publicity Scheme for Pharmacy

SIR,—The discussion at Leeds on the "Publicity Scheme for Pharmacy" (*C. & D.*, January 14, p. 31) has given us a further insight into the details of the scheme. Mr. Gilleghan said they could not guarantee a definite return in the first year, and Mr. Mallinson said that at the end of the first three years the continuance would depend on the experience gained. This is where the chief difficulty is going to lie; at an estimated annual expenditure of £20,000 three years' advertising means £60,000, and if this is not sufficient to show that the campaign is having some definite effect, the scheme will fade out, and the money can be written off as funeral expenses. One member said in the discussion that it would be necessary to conduct the advertising through advertising experts. If this course is taken, I hope that careful choice will be made of the agents employed, because to judge by the circular letters and other printed matter with which the advertising experts who conduct the propaganda of some manufacturers fill the letter box, a good deal of money must be wasted in this way. Although of course chain shops cannot be prevented from linking up with any such scheme, as they did with Pharmacy Week, the advertising should definitely direct the public to the qualified proprietor's shop, and give good reasons for doing so; and it should avoid extravagances which arouse plenty of humour among people who have any knowledge of the conditions of the trade.

Faithfully yours,
PUBLIQUE (24/1).

A Suggestion

SIR,—Correspondence in your columns from time to time reveals many difficulties that have arisen in pharmacy during the post-war period. Many of these troubles have arisen through the weakness of pharmaceutical organisations, due mostly to lack of support from pharmacists in business. The Retail Pharmacists' Union, with the unanimous support of its members, negotiated an extremely difficult matter connected with N.H.I. While all pharmacists who run a business benefit, there are many who do not yet support this body. The Pharmaceutical Society has a membership of over 15,000 chemists and druggists, yet there are nearly double this number of pharmacists registered. If ever pharmacy is to hold its own it must be through these organisations. One of the greatest blots on the escutcheon of pharmacy to-day is the sale of purely pharmaceutical products by many types of unqualified persons. A certain amount of suspicion exists between manufacturers and the retail branch of pharmacy. A gulf has been created, but if this problem is to be solved (and it can be solved), then this gulf must be bridged. May I suggest a National Committee be formed to investigate all matters connected with the sale of purely pharmaceutical products? This will give us an opportunity to be up and doing, instead of waiting for something to turn up.

Yours faithfully,
J. F. McNEAL.

Little Chalfont.

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Wanted, an all-round Assistant

We have received the following from a veterinary surgeon (24/1):—

"I am in need of a dispenser, book-keeper, shorthand typist, and one that could drive a car, but this is not essential. I am practising here almost entirely amongst horses, and I should be grateful if you could put me in touch with a suitable person. I am afraid I cannot, to start with at all events, give very high salary, but I could put it on an increasing scale. I should require that anyone that came to me would make themselves generally useful, in the preparation of stock—powders, medicine, etc."

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. F. (3/12).—RAT POISON.—This appears to be a liquid extract of squill. It should be red squill. It is perfumed with aniseed.

G. W. S. (22/10).—FLOOR-SWEEPING PREPARATION.—This is a mixture of 90 per cent. sand and 10 per cent. sawdust. A little terpene product has been included, sufficient to give it a pleasant odour.

L. M. T. (21/12).—WRINKLE CREAM.—The following formula should yield a preparation to meet your requirements:—

Borax	10 gm.
White wax	100 gm.
Hard paraffin	50 gm.
Heavy liquid paraffin	400 gm.
Distilled water	150 gm.

A. R. L. (11/1).—SUGARLESS JAMS.—Sugarless jams and marmalades for the use of diabetic patients are made with a jelly basis, which is prepared with gelatin instead of sugar, the strength being about $\frac{1}{2}$ oz. of gelatin to a pint of liquid, which in the case of marmalade would be orange juice, pulp and grated peel. The sweetening is managed by the addition of saccharin, which, however, should be added cautiously, as an excess is objectionable to the taste. Grape fruit could be substituted for oranges.

J. G. (9/28).—COLOURING BILLIARD BALLS.—Methods of staining white ivory billiard balls red are as follows:—(1) Wash the ball in a solution of sodium carbonate; rinse, then plunge it for a few minutes in a solution consisting of equal parts of water and nitric acid. Remove, rinse in running water, then place it in an alcoholic solution of fuchsin until it exhibits the desired colour. This yields a fiery red colour; (2) Wash in a solution of sodium carbonate, rinse and lay for a few minutes in a 2 per cent. solution of stannous chloride. Then boil in a solution of logwood. Remove the ball and lay it in a solution of potassium carbonate until it assumes the desired colour. This yields a cherry red; (3) Wash in solution of sodium carbonate, rinse, then lay for twenty-five minutes in a 5 per cent. solution of nitric acid, rinse in running water, then immerse for several minutes in a weak solution of tin chloride. Finally boil the ball in a solution consisting of carmine 2, sodium carbonate 12, water 200, acetic acid sufficient to saturate. This yields a pale pink colour.

Retrospect of Fifty Years Ago


Reprinted from
"The Chemist and Druggist," January 15, 1883
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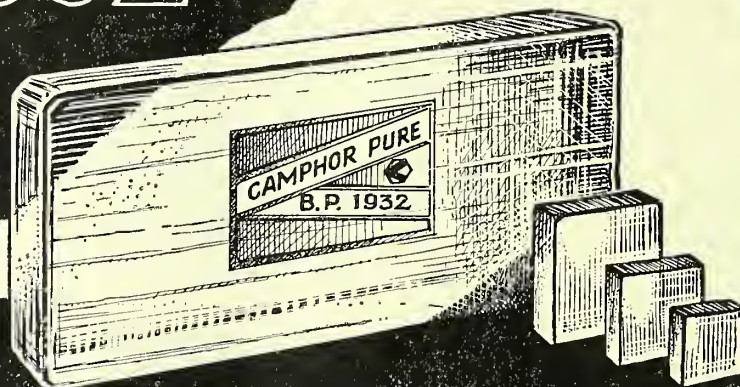


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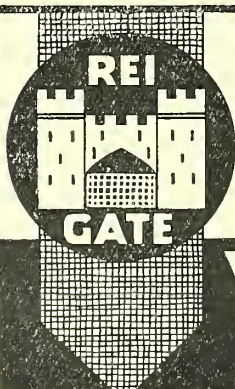
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CITRATE of POTASH
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FERRI et AMMON
CIT.

BICARBONATE of POTASH

CARBONATE of POTASH

PRECIPITATED CHALK

CALC. CARB. PRECIP.

for Dentifrice Pastes, &c.



ESTD. 1823.

ROCHELLE SALTS

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TARTRATE of SODA
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JOHN & E. STURGE, Ltd. WHEELLEY'S LANE
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Agents:
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Cables: "STURGEON, BIRMINGHAM"
Codes: A.B.C. 6th Edition, BENTLEY'S
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CREAM OF
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(MIST. MAGNES. HYDROX. B.P. U.S.P.)

An Antacid Emulsion in almost perfect suspension produced by the "Pattinson" method and therefore free from Alkali and Salts. Packed for the Wholesale Trade. Write for 12-oz. free sample bottle to the Sole Manufacturers:

THE WASHINGTON CHEMICAL CO.

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LOZENGES PASTILLES

LIQUORICE & MENTHOL

Glossettes
REGD.

Compressed
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PACKED OR IN BULK, FOR WHOLESALE,
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BOOTS PRODUCTS IN MODERN THERAPY

ACRIFLAVINE—BOOTS

One of the most potent of modern antiseptics, physiologically pure and extremely soluble in water, ACRIFLAVINE (BOOTS) kills organisms in a concentration of 1 in 100,000.

BISMOSTAB—BOOTS

A suspension of specially prepared, finely divided, pure Bismuth metal in 5% Glucose solution is non-irritant, highly concentrated, sterile and ready for use.

ACRIFLAVINE—(BOOTS)
CHLORAMINE-T—(BOOTS)

COMPOUND FLUID
EXTRACT OF LIVER—
(BOOTS)

DRY EXTRACT OF LIVER
(BOOTS)

EPHEDRINE—(BOOTS)

HEXYL-RESORCINOL
(BOOTS)

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(Compound Liver Extract and Iron)

MEDICINAL GLUCOSE
(BOOTS)

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(Desiccated Stomach Substance)

REINFORCED COD LIVER
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BOOTS PURE DRUG CO., LTD.

Manufacturing Chemists and
Makers of Fine Chemicals

NOTTINGHAM - - - ENGLAND

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PHARMACEUTICAL PRODUCTS

issued under the following Trade Marks or Brands in Original Packings as under:

'COMPRAL'

gr. $7\frac{1}{2}$ (0.5g.) tablets in tubes of 10 and bottles of 50 and 250.

'ADALIN'

Cartons, $\frac{1}{2}$ -1 oz. Tablets, gr. 5, bottles of 25 and 100; gr. $7\frac{1}{2}$, tubes of 10.

'NOVALGIN'

Bottles of $\frac{1}{2}$ -1 oz. Tablets, gr. 5, bottles of 25, 100 and 500.

'ELITYRAN'

gr. $\frac{2}{3}$ (0.025g.) in tubes of 30, and bottles of 250.

'PHANODORM'

gr. 3 tablets, tubes of 10 and bottles of 50 and 250.

'PYRAMIDON'

The Original Product.
Cartons, $\frac{1}{2}$ -1 oz. Tablets, gr. $1\frac{1}{2}$ and 5.

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Tablets in tubes of 20 and bottles of 50 and 250.

'LUMINAL' and 'LUMINAL' SODIUM

The Original Product.
Cartons and bottles of $\frac{1}{2}$ -1 oz. Tablets, gr. $\frac{1}{4}$ to 5.

'LACARNOL'

In drop bottles of 20 c.c. and 125 c.c. Boxes of 5×1 c.c. ampoules.

PRICE LIST ON REQUEST FROM

BAYER PRODUCTS Ltd., 19 St. Dunstan's Hill, London, E.C.3

AN OLD-FASHIONED—BUT REALLY EFFECTIVE
remedy for COUGHS, COLDS, IN-
FLUENZA and BRONCHIAL troubles.

Licoricine
ACTS LIKE MAGIC

Prices 10½d., 1s. 3d. and 3s.

MANDALL & CO. Ltd., 17/23 Stepney Rd., Newcastle-on-Tyne.

TERMS.

10½d. size, 8/6 per doz.
1/3 " 12/- "
3/- " 27/- "

Less 5% dis. on £6 orders.
Carriage paid on orders of
£2 and over.

ALL PREPARATIONS CONTAINED IN THE
BRITISH PHARMACOPCEIA 1932—

CAN BE OBTAINED FROM:—

WILLOWS, FRANCIS, BUTLER & THOMPSON, LTD.
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— ESTABLISHED 1751 —

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FORTY KINLAND, LONDON

AND NOW COMPLETING OUR SECOND CENTURY OF SERVICE TO THE PHARMACIST.

Bonus**"CLARKES"**

Brand

WORLD-FAMED BLOOD PURIFYING MEDICINE

"BLOOD MIXTURE"

Registered Trade Mark

Brand



FOR **3 MONTHS** COMMENCING 1st FEBRUARY, 1933,
WE ARE MAKING A **SPECIAL BONUS OFFER** FOR A
14 DAYS COUNTER AND WINDOW DISPLAY

ORDER.		COST	SELLS FOR
3 doz. 3/- CLARKES BLOOD MIXTURE		£4:1	£5:8
	(LIQUID OR TABLETS.)		

BONUS.			
1 doz. 3/-	do.		9/-

ORDER.			
12 doz. 3/- CLARKES BLOOD MIXTURE		£15:6	£21:12
	(LIQUID OR TABLETS.)		

BONUS.			
1 doz. 3/-	do.		£1:16

THE ABOVE BONUS WILL ALSO BE GIVEN ON
ASSORTED ORDERS OF EQUIVALENT VALUE
viz., £4:1 AND £15:6.

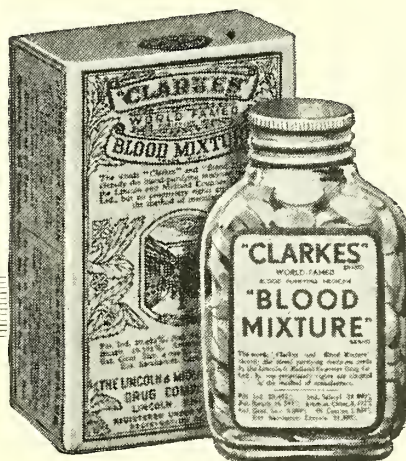
CARRIAGE PAID—PACKING FREE

**ORDER NOW DIRECT OR THROUGH YOUR USUAL
WHOLESALE HOUSE.**

DISPLAY MATTER IS ENCLOSED WITH EACH ORDER.

ASSORTED ORDERS.

	Retail	Min. Value £4:1	Min. Value £15:6
CLARKES BLOOD MIXTURE	3/-	27/-	25/6
" " "	12/-	108/-	102/-
" " " TABLETS	3/-	27/-	25/6
CLARKES SKIN LOTION	1/3	11/6	10/6
CLARKES SALVE	1/3	11/6	10/6
" " "	3/-	27/-	25/6
" " "	5/-	45/-	41/6
CLARKES APERIENT PILLS	1/3	11/6	10/6
" " "	3/-	27/-	25/6
CLARKES MEDICATED SOAP.			
	Box 3 Tab. 2/6	8/-	7/6
	Single Tab. 1/-		



The Lincoln & Midland Counties Drug Co. Ltd.
PARK STREET, LINCOLN

Telegrams: "LINDUM, LINCOLN."

Telephone: LINCOLN 55.

For OVER 75 YEARS

Dr. J. Collis Browne's
CHLORODYNE

has maintained a

WORLD-WIDE REPUTATION

TO-DAY'S DEMAND BEING
GREATER THAN EVER.

**ARE YOU GETTING
YOUR SHARE OF
THIS INCREASE ?**

Be sure you hold stocks
to meet the demand and
remember that

Dr. J. Collis Browne's
CHLORODYNE

IS ONLY SOLD THROUGH CHEMISTS

SIZES 1/3, 3/-

Order from your Wholesaler
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**MORE POPULAR
THAN EVER...**



Easy to see why Snowfire Cream goes on increasing in popularity. Its purity and fragrance, its greaseless vanishing quality and its real beautifying properties make it the favourite everywhere. Every customer you make means more to come—every satisfied user tells her friends about Snowfire. So make good displays—brisk sales and good profits will result.

Handbag Containers 3d.
Dainty 6d. Tubes
Retail

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VANISHING CREAM

Manufactured by
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G. E. THURLEY & SON
Specialists in Liquid Paraffin

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If you do not stock the **NATIONALLY**
ADVERTISED line

CONSTIPON

we will send you a small supply with all
advertising matter on

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CONSTIPON GLASGOW, C.2.

Treatment for CANCER

DR. T. ISHIHARA'S

Patent No. 352620 (Great Britain).

Patent No. 88650 (Japan).

P-O-U

HORMONE

A treatment for cancer and erosion of os uteri, prepared from new endocrine organs based upon Dr. Ishihara's new theory of Umbilical Cord Hormone.

Indications

- (1) Cancer of stomach, intestine, uterus, etc.
- (2) Erosion of os uteri.

Doses : 0.3-0.6 gm. (3-6 tablets) per day administer per os between meals.

Injection : 1 c.c.-2 c.c. per day, Hypodermically.

PACKING

Powder 5 g. (code: POUB)
Tablets 50 tab. (code: POUM)
Injection 1 c.c. x 10 (code: POUH)

TRADE



MARK

Nippon Shinyaku Co., Ltd.
KYOTO, JAPAN

Cable Address:
"NIPPONSHINYAKU, KYOTO."

Code:
ABC 5th and 6th EDITION.

For particulars apply to
MITSUI & CO., LTD.
31-33 LIME ST., LONDON, E.C.3

(Samples Doctor only)

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The decorated box shown here has been a wonderful success. Offices as well as families are buying GRIPS this way. Your counter or window will look all the better with a dozen of these boxes displayed there—they'll sell quickly at the usual good profit. Write today for your supply.

"GRIPS"

FIRST-AID PASTILLES

Agents to the Wholesale and Retail Chemists' Trade:—

THOS. CHRISTY & CO., 4/12 Old Swan Lane, London, E.C.4

NEW PRODUCTS

now being advertised to the Medical Profession.

BIVATOL (LIPO-SOLUBLE BISMUTH)

Ampoules of 2c.c. Boxes of 12. Retail 7/- . Wholesale 66/- per dozen.

BIOCHOLINE

A solution of Pure Choline Hydrochloride 2cgm. per c.c.

Ampoules of 1c.c. Boxes of 12. Retail 7/6 Wholesale 69/- per doz.

25	"	15/-	"	138/-	"
50	"	22/6	"	210/-	"
100	"	37/6	"	360/-	"

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The active principles of Viscum (Gui) with Gland Extracts.
Tablets. Bottles of 50. Retail 4/- . Wholesale 36/- per doz.

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Owbridge's Lung Tonic
The **BRITISH REMEDY**
for Coughs and Colds is a
quick selling profitable line.

Now is the time to replenish
your Stock for the huge
winter demand.

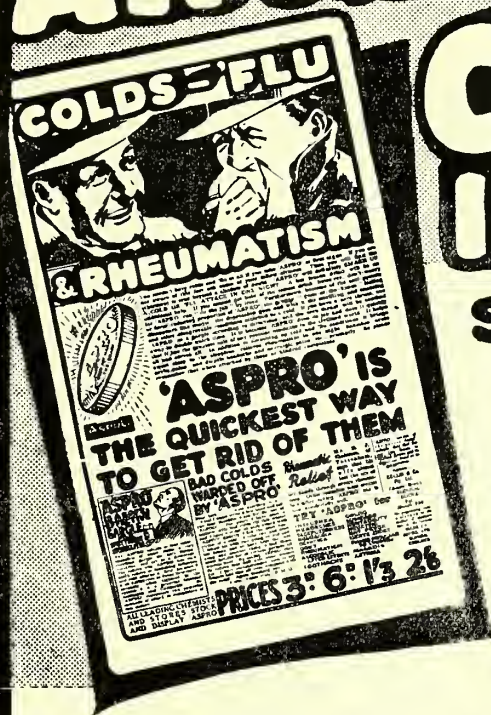
**A BEST SELLER
ALL THE WINTER**

**PRICE PROTECTED
AT FACE VALUE**

W. T. OWBRIDGE LTD. The Laboratory, HULL

AN ANTI-'FLU CRUSADE IS NOW ON

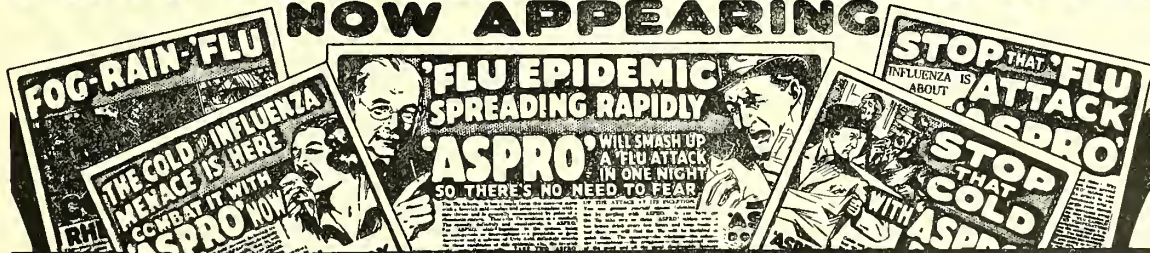
**STICK UP YOUR
STICKERS
PUT IN YOUR
WINDOW-SHOWS**



Business is stirring—health service is required. There are ten times more people needing 'ASPRO' at the present time than at most times. We are alive to it—OUR ANTI-'FLU CRUSADE IS IN FULL SWING.

Our advertising appropriation has been increased commencing with half pages in the leading dailies—featuring colds, 'flu and rheumatism. Altogether 32 MILLION PEOPLE are being appealed to through over 300 papers. You can obtain TREMENDOUS business NOW by keeping in your 'ASPRO' window-show and putting up window stickers to make contact with this great advertising and sales creating movement.

HERE ARE SOME OF THE ANTI-'FLU ADVERTISEMENTS NOW APPEARING



'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents: **GOLLIN & CO. PTY. LTD.** ('Aspro' Dept.)
SLOUGH, BUCKS.

Telephone: SLOUGH 608

Made by ASPRO LTD., SLOUGH, ENGLAND.

No proprietary right is claimed in the method of manufacture or the formula.

ASPRO
REG. TRADE MARK

LACTOBYL

A biological product containing:—

- (1) BILIARY SALTS
 - (2) INTESTINAL ENZYMES
 - (3) LACTIC FERMENTS
 - (4) ACTIVATED CHARCOAL
 - (5) EXTRACT LAM. FLEX.
- which relieve bowel indigestion.
which retard putrefaction.
which absorbs and fixes toxins in the alimentary canal.
which hydrates the intestinal content and increases peristalsis.



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CONTINENTAL LABORATORIES, Ltd.

30 Marsham Street, London, S.W.1

"Taxolabs, Sowest, London."

Victoria 2041.

3/-
EACH

PATENT
APPLIED FOR



K-D Your medicines, delicate instruments, tools, cigarettes, etc., all can be taken care of by using K-D.

- K - D Keeps salt and sugar dry
- K - D Keeps biscuits crisp
- K - D Keeps jam free from mould
- K - D Can be used in your wireless set, piano, clock, etc., etc.
- K - D For wardrobe & linen cupboard
- K - D Detects and corrects damp beds

K - D Lasts for Years!

Obtainable from ALL WHOLESALEERS or from:

Sole Distributors:—**ELMESAN (London) LTD.**
Dept. C.D.

66 Victoria Street, London, S.W.1

See our Exhibit at the "B.I.F." (Stand C.1., Empire Hall) and the "Ideal Home Exhibition."

**YOU'RE
"ALL OUT" FOR
BUSINESS?**

For thousands of people Box's Pills are the standard remedy for all digestive disorders. The demand is steady and increasing—largely through the recommendations of users.

To secure your share of the profitable flow of business it is necessary to inform the demand which passes by your establishment. Telling window and counter display material is free on request.

Obtainable from wholesalers or direct from the proprietor



W. H. BOX
161 KING ST.
PLYMOUTH

Telegraphic Address:
"Giant" Plymouth.

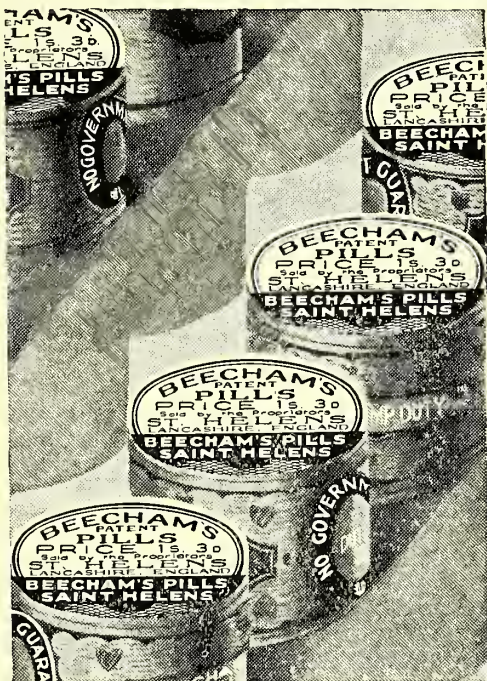
**GIANT PILL
MANUFACTORY**

**BOX'S
INDIGESTION
PILLS**

Two lines that sell every day—every year

£2 parcel for either Beecham's Pills or Beecham's Powders or Assorted Beecham's Pills and Beecham's Powders

38% PROFIT



BEECHAM'S PILLS

The family Remedy for the last 80 years for SICK HEADACHE, BILIOUSNESS, CONSTIPATION and INDIGESTION. The best daily seller in the Drug Trade.

An intensive advertising campaign is continually appearing in all leading National and Provincial papers. This is supplemented by House-to-House distributions throughout the country. There is no fear of Bad Stock as all replacements are made free of charge.



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Introduced a few years ago, have the confidence of the public for INFLUENZA, COLDS, CHILLS, HEADACHES, RHEUMATISM, LUMBAGO, NERVE PAINS, etc. Made from the finest ingredients obtainable. Chemists will be well advised to keep adequate stocks of Beecham's Powders to enable them to meet the big and increasing demand.

TERMS TO THE TRADE

Beecham's Pills	...	1/3 Size	11/9 Per Doz.	Beecham's Pdrs.	...	1/3 Size	11/9 Per Doz.
"	"	3/-	28/-	"	" (Tablet Form)	1/3	11/9
"	"	5/-	54/-	"	"	5/-	54/-
		Beecham's Cough Pills	...	1/3 Size	11/9 Per Doz.		
		"	"	3/-	28/-		

Less 2½% Discount and 5% Window Display Allowance. Minimum Order £2-0-0 value. Monthly Account. All goods packed free and sent carriage paid. Stock more—show more and sell more Beecham's Pills and Beecham's Powders.

BEECHAM'S PILLS LTD.

ST. HELENS

LANCASHIRE

Telephone : 2241 St. Helens

Telegrams : Beecham St. Helens

CHEMISTS—YOUR OPPORTUNITY

SPUNOINTMENTS
AND
EMULSIONSTHE
WORLD'S
FINEST**CINNAMON**

AND

QUININE

FOR

FLU COLDS AND CHILLS

ATTRACTIVE PACK

SHOW CARDS

REASONABLE PRICES

A postcard will bring prices and samples by return

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168 TOWER BRIDGE
ROAD, LONDON, S.E.1**SPECIAL
BONUS OFFER
FOR FEBRUARY ONLY**With all orders received during
February value £2, we offer **TWO**
1/3d. "Kof-Oh," free with every
dozen ordered. 250 Handbills,
Showcard 20" x 8" and Kand
Cut-out Display Stand.
Carriage Paid. Packages Free.*Order direct or through your wholesaler.***"KOF-OH"
BRAND
COUGH CURE****1/3** The Modern Remedy for Coughs,
Colds, Bronchitis and Chest and Lung
Complaints. Does not contain
Opium, Morphia or other dangerous
drugs. Nationally advertised. Sure
"repeaters." You can safely recom-
mend "Kof Oh" to your customers.**KOF-OH CO., LTD.**

Manufacturing Chemists, Everton, Liverpool

**MEL ROSE —
FOR
CHAPPED
HANDS, &c. TABLETS**

Manufactured for close on 50 years

The public demand is
maintained in spite of
many imitations, and
Chemists can rely on
sales all the year round.*Look to your Stocks.***2d. and 4½d.****MEL ROSE —
CREAM***Sold in Jars for the Dressing Table.
Contains all the remedial properties of
the Tablet made up in a softer form.***9d.****ROBERTS & SHEPPEY** SOLE
MANUFACTURERS
2 SKIPTON ST., LONDON, S.E.1

PETROLEUM JELLIES

WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

WHITE & COLOURED OILS

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

LIQUID PARAFFINCOLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only.***STERNS LTD.**

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Telegrams: "CENTUMVIR, TELEW, LONDON."



PETROLEUM JELLY
("SALVO PETROLIA")
BRAND

THE PERFECTION OF PETROLEUM JELLY
MANUFACTURED SOLELY BY

THE DEE OIL CO. LD.
D 23 & 24 EXCHANGE BUILDINGS
LIVERPOOL

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SMALLER PACKAGES IF DESIRED.

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WHITE OILS B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION

OLEUM DEELINÆ (DEE OIL)
THE UNFAILING CURE FOR ECZEMA

S. O. S.

THE UNFAILING REMEDY
for **INFLUENZA** is
H. B. T. FLU' PILLS

Used with unbroken success for over 20 years for Influenza—Pleurisy—Pneumonia—Rheumatic Fever—Lumbago, etc., and with signal success in the present epidemic. A polychrest with remarkable and extensive healing powers. Recommend them to your clients and gain their gratitude.

In bottles 1/3 and 2/6

Terms 33½ per cent. Over £2 carr. paid.

HUNTER BEATTIE
GLASGOW, S.E.

RIVISTA ITALIANA DELLE ESSENZE E PROFUMI

(Affiliated to the Technical Press Association.)

FIFTEENTH YEAR OF PUBLICATION

Official Organ of the Group of Producers of Aromatic
Substances of the National Fascist Federation of Chemical
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**Wholesale
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1/3 Size
11/6 per dozen net
3/- Size
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Carriage Paid Gross Quantities
or equivalent.

Manufactured only by

J. F. WHITE & CO., Chemists
BENSON STREET, LEEDS.

**ATLAS
"KATTLEKURE"**

The Best and Safest Remedy for Cattle, Horses, etc.
There is money to be made in Veterinary lines
if you stock the right lines. "Kattlekure"
is known throughout the country and regularly
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EMKOLENE (REGD.)
THE EFFECTIVE TREATMENT FOR PILES

3/- PER JAR

Liberal Trade Terms

THE EMKOLENE MANUFACTURING CO.
21-23 CHISWELL STREET, LONDON, E.C.1
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Money-Making and Money-saving Books

EVERY BOOK by an EXPERT

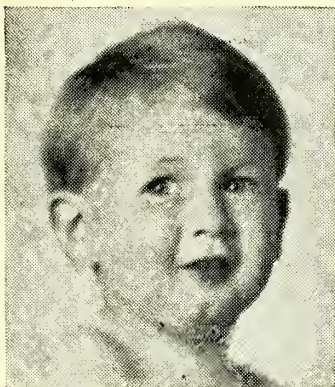
May be obtained at the published prices from any Wholesale Drug or Sundries House, or from

"THE CHEMIST AND DRUGGIST," 28 Essex Street, London, W.C.2

BRANCH OFFICES :

Manchester and Sheffield, England; Glasgow, Scotland; Melbourne and Sydney, Australia; Auckland, New Zealand

Tell your Customers how Lactogen saved this baby



"I feel it my duty to inform you of the value 'Lactogen' has been to my baby. My baby was premature weighing only 3 lbs. when born; several Doctors and Nurses gave up all hopes of her as she could not keep any food down, but my husband got a sample of 'Lactogen' and this satisfied baby. She is now 6 weeks old and weighs 6 lbs. gaining an average of 8 ozs. per week. I am recommending this food to everyone." E.M.

When the Mother or the Nurse doesn't know where to turn, you can with confidence recommend Lactogen. Babies thrive on Lactogen when all other foods fail.

Lactogen is pure, fresh, full-cream milk from specially selected English herds, modified by the addition of extra cream and natural milk sugar. When reconstituted by the addition of boiled water, Lactogen is in all important respects exactly like breast milk. Under any circumstances you need never hesitate to say "Put Baby on Lactogen."

Send to-day for full particulars and terms to the Lactogen Bureau (Dept. AZ77), Nestlé and Anglo-Swiss Condensed Milk Co., 6 & 8, Eastcheap, London, E.C.3.

LACTOGEN
REGD TRADE MARK

BETTER MILK
FOR BABIES

Lactogen — prepared by Nestlé's — is a modified dried milk for use in infant feeding.

2/9 PER TIN
P. A. T. A.

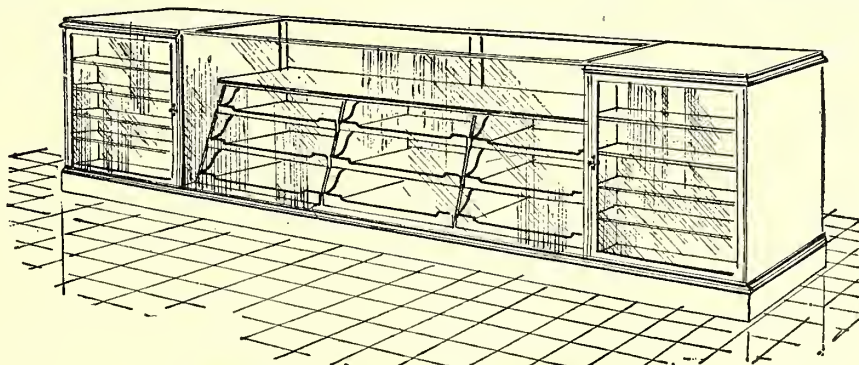
PHILIP JOSEPHS & SONS, LTD.

PHARMACEUTICAL SHOPFITTERS

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Telephone : CLERKENWELL 2191

Telegrams : JOSIPHIAH, SMITH, LONDON



THE IDEAL COUNTER

DETAILED SPECIFICATION AND PRICES ON APPLICATION

"PHARMACY FITTERS FOR OVER A CENTURY"

6 ALL BRITISH PRODUCTS SHOWING PROFITS UP TO 90%

COLLOSOL IODINE AND
BLACKCURRANT PASTILLES

HALIMALT COLLOSOL HALIBUT LIVER
OIL AND MALT EXTRACT

CROOKES' STANDARDISED
COD LIVER OIL

COLLOPLASMA THE ALL BRITISH
IODO KAOLIN CATAPLASMA

KARVOL INHALANT THE LATEST
ADDITION TO THE COLLOSOL RANGE

CROOKES' EMULSION 50%
FINEST COD LIVER OIL

WRITE NOW FOR FULL PARTICULARS OF THIS BONUS OFFER

"Not merely British made but British throughout"

THE CROOKES LABORATORIES (BRITISH COLLOIDS LTD.) **LONDON, N.W.10**

Telegrams: COLLOSOLS, HARLES, LONDON

Telephones: WILLESDEN 6313 (3 lines)



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DERS & Co., Ltd.
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BROOKS
& Warburton, Ltd.

GOODALL, BACK-
HOUSE & Co., Leeds

MAY, ROBERTS & Co.
Ltd., London

or direct from the sole makers.

Terms and samples from:—

TOWN TALK POLISH CO., MANCHESTER

There is no shadow of doubt about the
Supreme excellence of the "Town
Talk" Impregnated Silver Plate Cloth.

USED by Silversmiths to preserve the beauty
of their own wares, it is SOLD by the lead-
ing hardware Stores in the country and is
ASKED for by housewives everywhere.

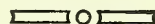
It has no rival for cleaning Gold, Silver
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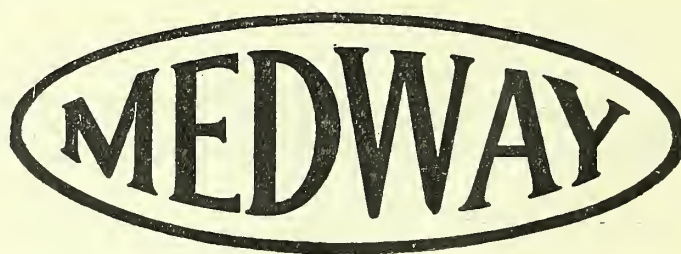
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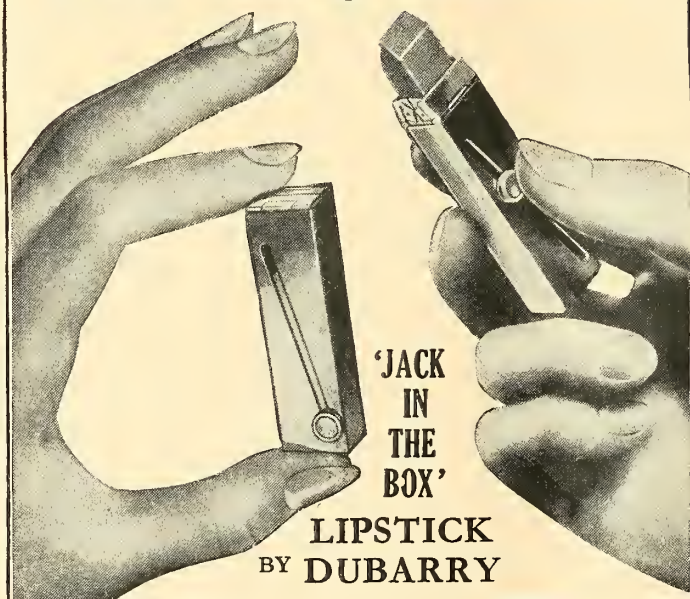
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This Supplement is inserted in every copy of The Chemist & Druggist

JANUARY 28,
1933

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ALL ADVERTISEMENTS are PREPARED, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

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2.—RICHMOND.—Neglected Business for immediate disposal; returns last year £1,300; previous year £1,600; double-fronted shop; large house; rent £150; renewable lease; very old established; scope for increase under energetic management; must be sold; any reasonable offer.

3.—LAW COURTS (near).—(Death vacancy) Dispensing and Prescribing Business with General Retail and several own Proprietaries; returns 1931, £1,844; stock and fixtures worth about £350; rent £200; price about £550.

4.—NORTH LONDON.—Good Middle-Class Business with Kodak Agency, N.H.I. and Optics about £100 per annum; returns approx. £2,500; scope for increase in optics; audited accounts; double-fronted shop in main road, very nicely fitted and heavily stocked; rent £150; sublet 25s. weekly; held on lease; price £2,200.

5.—SUTTON (Surrey), Near.—Middle-Class Retail Business with good photographic; returns last year approached £1,500, increasing; double-fronted shop; fixtures worth £262, and stock £300; house contains 5 rooms, bathroom; garden; back entrance; room for garage; new lease; rent £160; terms value of s. and f. plus about one year's net profit for goodwill; stock would be reduced.

6.—ESSEX SUBURB.—Good Middle-Class Business in progressive locality; returns under management £1,720; attractive shop, well-fitted and stocked; new lease will be granted or property may be purchased; fixtures worth about £250; price required about one year's net profit plus value of s. and f.; vendor will reduce stock to meet purchaser.

7.—ESSEX.—Good-Class Business with Kodak Agency; established 40 years; returns £3,400 p.a.; usual profits; stock and fixtures worth about £1,600; six-roomed house with bathroom; rent £225; long lease; valuation terms entertained.

8.—WEST OF ENGLAND.—General Retail Business, with Kodak Agency; returns average about £34 weekly; estimated turnover for this year, £40-£45 weekly; gross profit 40 per cent.; very good house, with bathroom and side entrance; rent £250; part sublet; stock and fixtures worth £1,100; excellent position; price £1,300.

9.—CHESHIRE.—High-Class Retail and Dispensing Business, with Optics; returns £2,522 (Optics £400); double-fronted corner shop; living accommodation; private entrance; freehold may be purchased; rates £35; practically no opposition; price to be arranged.

10.—WARWICKSHIRE.—Light Retail and Dispensing Business for immediate disposal; returns last year exceeded £1,800; net profit about 25 per cent; accountant's figures; comfortable living accommodation; property may be purchased, or lease will be granted at about £80; price £1,200; further details on application.

11.—SUSSEX COAST.—Family Retail and Dispensing Business; no N.H.I. at present; returns last year £1,337, with net profit £317; stock and fixtures worth about £650; rent £45; held on lease; price £850, or near offer.

12.—NORTH RIDING (YORKS).—Medium-class Business, with Kodak and Rexall Agencies; returns 1921-32 £1,432; gross profit £484; house contains 5 rooms; back entrance; rent £90; held on lease; price £125, plus value of stock and fixtures, or lump sum of £850.

13.—EASTERN COUNTIES.—Good Middle-class Business, with Kodak Agency and Optics; returns exceed £2,500, plus over £400 from Optics; new lease will be granted; stock and fixtures worth about £1,150; lock-up pharmacy; double-fronted attractive shop; price to be arranged.

14.—BERKSHIRE.—Light Retail and Dispensing Business, with Kodak and Ucal Agencies; also small Library; returns £914; scope for increase; average profits; 5-roomed house, with private entrance; rent £85; long lease; price asked £600.

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1.—SURREY.—Good-class Retail and Dispensing Business; in good residential town; present returns £40 weekly, with scope for increase; very handsomely fitted pharmacy; good house attached; on long lease; valuation terms arranged; references required.

2.—SUSSEX (easy reach of coast).—Light Cash Retail and Dispensing Business; returns last year over £1,300; net profit £250; audited figures; good house; long lease; price, bare valuation of stock and fixtures, about £600.

3.—EASTERN COUNTY.—Light Middle-class Cash Retail; in large town; returns over £1,550, good profits; low rent; lock-up shop, nicely fitted and well stocked; price £800.

4.—BIRMINGHAM.—Good-class Retail and Dispensing Business; in pleasant suburb; main-road position; returns last year £1,350; plenty of scope; rent £75; good house; well stocked; price £600, or first reasonable offer.

5.—BERKS.—Light Country Retail Business; pleasantly situated; returns over £900; scope for increase; modern pharmacy; with good house and garden; price £100, plus valuation of stock and fixtures, in all about £600.

6.—CHESHIRE.—Good-class Semi-country Business, with Optics; returns £1,725; net profit £395; stock and fixtures worth approx. £900; illness necessitates early sale; price £1,100, or £875 without Optics.

7.—LIVERPOOL.—Light Cash Suburban Business, returning under manager £1,450; gross profit £550; splendid position on new housing estate; scope for increase; modern fitted pharmacy, well stocked; long lease; price about £700.

8.—ESSEX (Near Coast).—Well-established Mixed Chemist's Business; good Photo connection; returns over £2,100; books audited; low rent; on lease; good position; price £1,250.

9.—DERBYSHIRE.—Old-established Business in busy town; returns average £1,350; good profits; rent £52; corner shop; well fitted, fully stocked; no near opposition; price £800.

10.—LONDON (Essex Suburb).—Sound Working-class Cash Retail Business; present returns average over £20 a week; rent only £36; long lease; comfortable house; price £500, or £225 and stock at valuation.

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Prospective purchasers of businesses (all descriptions) are invited to communicate with the full assurance that all confidences will be strictly observed. Service and Assistance rendered without obligation or expense.

The following businesses have in the main been visited, and are recommended to appropriate would-be purchasers.

(C1) SOUTHERN COUNTY.—Owing to contemplated retirement two old-established businesses are offered for sale by private treaty; the aggregate returns for the last complete financial year were slightly under £7,000 and there is no immediate opposition; living accommodation is available if required, but is at present sub-let; the rentals of both premises are low, and new 21-year leases will be granted to an approved lessee; the surrounding district is a middle-working-class residential one, the trade carried out being almost wholly for cash. Further particulars will be disclosed in strict confidence to bona fide enquirers upon receipt of Bankers' or other satisfactory references.

(C2) CARDIFF.—EXCEPTIONAL OPPORTUNITY. — Attractive modern pharmacy, with excellent living accommodation, can be purchased on very reasonable terms; owner prepared to consider a part-payment arrangement under approved circumstances; turnover for 1931 financial year upwards of £2,000; small optical connection, which should be capable of considerable development; no near opposition; premises situated in good-class residential district; Chemists contemplating the purchase of a business in this area are strongly advised to write, in confidence, for full details, which will be disclosed to genuine prospective purchasers; the business has been personally visited and is well recommended.

(C3) KENSINGTON (NEAR).—Good-class retail business with small modern flat above; turnover approximately £2,000 per annum; no near opposition; exceptional connection in photographic trade and good class private dispensing; purchase price approximately £1,400; owner is prepared to consider retaining an interest in the business under approved conditions, or will sell outright.

(C4) LONDON, W.—Established retail and dispensing business showing consistent progress over the last three years; present returns upwards of £1,800 per annum; low rent and rates; good private dispensing and prescribing; purchase price approximately £1,000.

(C5) WILTSHIRE.—Good profit-earning business, doing approximately £2,200 per annum; net profits as per audited accounts for last financial year upwards of £450; rent and rates approximately £65 yearly; a private house is available near to the business if required; every facility available for investigation, including audited accounts.

(C6) SOUTH WALES.—Two pharmacies, both containing living accommodation, are available for disposal privately, either jointly or separately; the present returns of the businesses average approximately £33 and £37 weekly, and the rentals are £130 and £100 per annum

respectively; both businesses are well situated and one pharmacy in particular is extremely well fitted and very attractive. Further particulars will be forwarded in strict confidence to genuine prospective purchasers.

(C7) BIRMINGHAM.—Opportunity for chemist with limited capital to acquire an old-established business in a densely populated working-class district, at a very low figure; premises comprise corner pharmacy with self-contained house, at present sub-let (possession could be obtained if required); present returns approximately £16 weekly, with genuine scope for increase; gross profits approximately 50 per cent. on turnover. Further particulars in confidence upon application.

(C8) SOUTH-EAST KENT.—Old-established lock-up pharmacy, situated in small country town; turnover for last financial year, approximately £1,900, with net profits upwards of £400; rent £85 per annum; lease (internal repairing only), 17 years; reasonable purchase price.

(C9) SUSSEX.—Family and dispensing business in small growing town, with house attached; turnover for last financial year as per Accountants' figures, £1,305; net rental of shop and house, after allowing for sub-let, £90 per annum; value of stock and fixtures (£500-£550), will be accepted for quick sale (no goodwill asked).

(C10) SUFFOLK COAST.—Unopposed business with living accommodation, for disposal together with freehold property, at a reasonable figure; present returns approximately £1,200 per annum, with genuine scope for increase if full possibilities are exploited; the business has recently been valued, and authentic figures are therefore available as a basis for negotiation; net profits for last financial year approximately £350. Further particulars will be forwarded in strict confidence to bona fide applicants.

(C11) SUSSEX COAST.—Old-established retail business for disposal owing to recent death of proprietor; turnover for last financial year approximately £1,200, but there should be undoubted scope for increase under new energetic ownership; living accommodation; rent, £65 per annum; purchase price £950.

(C12) SOUTHEND (NEAR).—Lock-up pharmacy, at present under management; returns at the moment average approximately £18 weekly; premises are very well positioned, and there should be abundant scope for increase with personal interest and attention; purchase price for quick sale, fittings and goodwill, £150, plus stock at valuation; stock can be reduced to any amount in accordance with purchaser's requirements; excellent opportunity for Chemist with limited capital.

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LIFORD.—Rapidly developing main thoroughfare; corner position; large Lock-up Pharmacy; magnificently fitted at a cost of £750; established 2 years; long lease; audited accounts; returns under management £1,600; can be doubled by private energetic owner; Kodak Agency; will accept value of stock only, about £400; must be sold to close estate. Apply Percy E. Slack, Incorporated Accountant, 44 Bedford Row, London, W.C.1.

LONDON, E. (Main Road).—Modern Chemist's Business; takings £30; rent £2 10s.; price £500, including stock; fine double-fronted shop; bargain. 360/20, Office of this Paper.

LONDON, Notting Hill district.—Nice little Chemist's Business, lock-up shop, low rent; no near opposition; good, clean stock N.H.I. and Photographics; price for quick sale £140 all at or reasonable offer. 359/40, Office of this Paper.

LONDON SUBURB (Middlesex).—Good-class residential; good-sized shop, opposite station; eight living, two store rooms, kitchen, scullery, bath, electric lighting and heating throughout; recently redecorated; twenty years lease, low rental; trade £30 under management, £40 under personal supervision; price £1,000, includes good stock. P.C.B. 62/38, Office of this Paper.

MANCHESTER.—Good-class Retail and Dispensing; neglected but now doing £24 cash per week and well over 600 scripts per month under management; excellent fixtures and room for optics; fully stocked; good lease; rare opportunity for smart man; good reason for selling; £925 all in. 359/9, Office of this Paper.

S.E. LONDON.—New business on tram and 'bus route; capable of development on personal lines; offers; lease, stock, etc.; chance for small investor; has living accommodation. 359/29, Office of this Paper.

SOUTH COAST.—Chemist's Business for disposal, busy main road; nice house, bath, etc.; Kodak agency; returns average £16 weekly; scope for substantial increase; property rent or sale, sale preferred on mortgage; purchase price £300 only; no triflers. please. 360/6, Office of this Paper.

SOUTH COAST.—Drug Stores; relinquishing after 25 years; small business open to development by qualified; large freehold corner shop built for advertiser, pre-war, 2 entrances; working and middle class; no opposition one way for a mile; all at £1,250. 358/30, Office of this Paper.

SOUTH COAST, near Bournemouth; rapidly developing area; established 1929; takings increased from £880 to £1,300; 11 years' lease to run; £100; Kodak, N.H.I., Private Dispensing, &c.; excellent opportunity for right man; £950 for quick sale. Apply by letter, Weeks, 150 Strouden Road, Bournemouth.

DEATH Vacancy.—Chemists' Business in good-class residential neighbourhood; South Coast; Kodak agency; six-roomed house with private entrance; freehold property; £1,100, stock and fittings (about £350) or valuation; must be sold. Enquiries to Mrs. Duckett, 14 Avenue Road, Weymouth. No agents.

OLD-ESTABLISHED Chemist's and Druggist's, South Coast town, well-fitted shop, excellent living accommodation (separate entrance); price £1,850 all at, including freehold; £1,500 would be left on mortgage at 5 per cent. to approved purchaser; splendid opportunity for young, energetic man. Boutwood & Co., 48 Western Road, Bexhill.

£55.—MIDLANDS; owing to sudden death, small lock-up Pharmacy, only partly fitted, not properly opened; respectable working-class neighbourhood; suit single man, especially a beginner; fixtures, utensils, drugs, patents, sundries; £55 the lot; rent 10s. weekly inclusive (bedroom, if desired, 7s. extra); offers considered. 359/10, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

LONDON, or near.—Private Chemist with capital requires first-class business showing turnover of about £4,000, one with photographic connection preferred; overhead expenses must be reasonable. Particulars in confidence to 360/7, Office of this Paper.

A.—WANTED, Good-class Business; main road Midlands or Southern towns; with or without living accommodation; on lease (purchase considered); showing a present net profit of £400-£500, with genuine scope for increase through neglect or illness; full cash payment immediately; must bear every investigation; bank references furnished, in confidence. 358/20, Office of this Paper.

A PRIVATE Pharmacist wishes to negotiate for a sound, good-class Dispensing and Retail Chemist's Business; turnover about £1,500 to £2,000; all replies treated in strict confidence. 359/27, Office of this Paper.

A DVERTISER wishes to purchase Small Business; desires to act as Assistant at small wage for 2 or 3 months, and if business proves to be as claimed, would make an offer; both banker's and solicitor's references available. J. D. H. H., 127 Vennor Road, Sydenham, S.E.26.

GENTLEMAN, with capital, having recently disposed of own business, wishes to purchase High-class Dispensing Business showing turnover of £7,000 to £10,000; would accept temporary partnership in larger concern, providing a minimum net income of £1,000 can be secured. Replies will be treated with strictest confidence. No agents. 358/25, Office of this Paper.

PPRIVATE Chemist requires a sound business in the Southern Counties, capable of producing a net profit of £500 per annum, after allowing for a qualified assistant; capital available for immediate negotiation; direct introductions effected if preferred. Please communicate in strict confidence with Ernest J. George, Sentinel House, Southampton Row, London, W.C.1. Telephone Holborn 9200.

WANTED, Chemists or Drug Stores; Bournemouth, within one mile of square; neglected business would do, or shop suitable for same. Write 358/17, Office of this Paper.

PREMISES TO LET.

BLACKPOOL.—Double-fronted Empty Shop; with good living accommodation; 8 years Chemist; no ingoing; extensive residential area and visitors' district; main street. Also one at North Shore. Bonny. 189 Church Street, Blackpool.

BULL RING, GRIMSBY.—To let, Shop, fitted in oak, for Chemist; no stock; lately carried on as Drug Store; good opening for N.H.I., Optics and Tobacco. Over 6,000 orders for D. and P. handed in this last summer; old lease will be transferred or new one granted; fixtures may be rented or bought. Apply to Owner, G. D. Atkinson, The Bon Ton, Old Market Place, Grimsby. Tel. No.: 2227.

BUSHEY.—Opening for Chemist; rent of shop and flat £78 per year, tenant paying rates; one shop only available in a parade of shops serving working-class and better-class houses without opposition. Apply to the Agents, W. S. Weller & Son, Monmouth House, High Street, Watford. Telephone: 3374.

UPPER NORWOOD.—Suitable shop for Chemist, in centre of town; no other chemist in street; low rent; good accommodation above. Apply W., c/o Dexter, 57 Westow Street, S.E.19.

NO PREMIUM.—Commanding Shop to Let in busy trading centre at Norbury; frontage 22 ft.; very suitable for Chemist; excellent self-contained flat over and space for garage; modern shop front installed; rent £140 per annum. Wates, Ltd., 668 High Road, Streatham. Phone: Pollards 2232.

PREMISES FOR SALE.

HOUSE and Shop, No. 33 Baildon Road, Baildon Wood Bottom; recently converted and modernised; ideal opening for Chemist; price £650. Apply C. H. Lord, 19 Market Street, Bradford. Phone: 1672.

AGENCIES.

AGENCIES required for sound selling lines; Bradford and West Riding. Full particulars, in confidence, to H. & W., 358/18, Office of this Paper.

GENTLEMAN, own car, extremely high-class established connection, calling on Stores, Chemists and Hairdressers; all Southern and Western Counties, guaranteed accounts only; seeks Agency or Position with established progressive firm of Wholesale or Retail Manufacturers. 358/4, Office of this Paper.

MANUFACTURING Chemists, makers of high-class medicinal and toilet lines, require selling agents for England and Scotland; excellent terms offered to established firms who have good selling organisation. 360/2, Office of this Paper.

APPRENTICES.

APPRENTICE, preferably male, will be shortly required by Chemist; situated 15 miles west of Oxford Circus; must have passed Matriculation or its equivalent. Applicants should apply in own handwriting to 358/16, Office of this Paper.

PATENTS.

PROCESS OF PREPARING LYO-PHILE PRODUCTS OF FATTY SUBSTANCES OF ANY ORIGIN.—The Proprietors of British Patent No. 329,305 desire to arrange for the commercial working of this patent by sale outright or by licences granted on participating and reasonable terms. Particulars obtainable from Technical Records, Limited, 59/60 Lincoln's Inn Fields, London, W.C.2.

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6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

LONDON, N.W.—Experienced qualified man, as manager, with part-time assistance; recently established lock-up pharmacy; working-class neighbourhood; capable dispenser and salesman; photography; opening for optics; participation in profits; permanency. Write full particulars, stating age and salary required, to 359/15, Office of this Paper.

LONDON, S.W.—Required at once, young Unqualified Assistant (male) with good-class Dispensing and Counter experience; apply giving full particulars, age, experience and salary required. 360/4, Office of this Paper.

LONDON, W.8.—Competent Junior Qualified Assistant, male, age about 24, required soon; sound experience and references essential. Reply, stating age, experience and salary required, to Inman, c/o J. F. Harrington, 15 Kensington High Street, W.8.

SURREY.—Required immediately, a young, gentlemanly Assistant for a good-class Dispensing Business; must produce highest references as a dispenser; a good knowledge of photographic business essential; only those with undeniable references need apply; applicants not answered in 5 days respectfully declined; state full particulars as to wages required, etc., to Smilax, 359/17, Office of this Paper.

THE MORLEY INDUSTRIAL CO-OPERATIVE SOCIETY, LTD., invites applications for the position of Drugs Manager. The post entails buying, the control of two Pharmacies, and the transference of goods to Grocery Branches. Applications stating age, wages, qualifications, and usual particulars, along with copies of two recent references, must reach the Secretary and General Manager not later than 12 noon Thursday February 2, 1933.

WALTHAMSTOW.—Junior, capable of assisting with N.H.I.; recently completed apprenticeship might do. Full particulars, salary required, &c., to Reynolds, 85, Wood Street, E.17.

ASSISTANT required from February 27, unqualified (male); must be well experienced in Dispensing, Counter, Photography; good personality and undeniable references. Apply to Manager, Durbins, Chemists, 66 The Broadway, Ealing, after 10.30 a.m.

GLAISYER & KEMP (CHEMISTS), LTD., require Male Assistant (27-30) February 6; only men with first-class references and experience in high-class pharmacies need apply; applications respectfully declined if no reply in three days. Manager, Hove.

JUNIOR Assistant (male) wanted for Good-class Dispensing and Retail Business; must be reliable worker, with good experience. Apply, with full particulars in own handwriting, to Price, Chemist, 2 Guildford Road, Woking, Surrey.

JUNIOR Assistant required; must have served apprenticeship in Good-class Pharmacy; with sound knowledge of Dispensing and Photographic Trade; splendid experience to be gained. State salary expected (outdoors) and when at liberty to commence duties, Oldham, Chemist, Eton, Windsor.

JUNIOR required, as soon as possible, for a good-class business. Apply personally, or full particulars in first letter. T. J. Morris, M.P.S., F.S.M.C., F.I.O., 20 St. James' Parade, Muswell Hill, N.10.

LADY Assistant (qualified) required; please send copies of references, photograph, age, with full particulars of experience and salary required. H. Williamson, Chemist, Congleton, Cheshire.

QUALIFIED Assistant wanted immediately, working-class district; call if possible. Kudish, 114 Commercial Road, E.1.

QUALIFIED Lady Chemist for North London Pharmacy; used to dispensing N.H.I. and private prescriptions. Write stating age and salary required. 359/38, Office of this Paper.

UNQUALIFIED Assistant (male) required for High-class Dispensing Pharmacy in N.W. London. Apply, giving full particulars of previous experience, salary required, &c., to B., 215/708, Office of this Paper.

UNQUALIFIED Junior (male) wanted, 4 miles from Croydon, Dispensing Counter, Photographics, &c.; state experience, salary, &c., and send photo if possible. 360/8, Office of this Paper.

UNQUALIFIED Lady Assistant; smart appearance; for high-class pharmacy East Lancs.; must be a good window-dresser; some knowledge of surgical appliance fitting an advantage; age approx. 25. Apply, with full particulars as to age, experience and salary required, to 359/18, Office of this Paper.

WHOLESALE.

LONDON.—Wholesale Export Druggists require a first-class Wet Counter Haul used to handling Poisons; must be quick and with good experience. 215/711, Office of this Paper.

MANUFACTURING Chemists require Travellers with established connections with Chemists in (a) Lancashire and Yorkshire, (b) North Wales, Shropshire and Staffordshire, to carry old-established Proprietary Article as side line. Send full details as to experience, etc., and references to 357/16, Office of this Paper.

PROFITABLE Lines.—Travellers with another commission wanted for the sale of High-Class Specialities in Herts and Lincolnshire districts. Full particulars to Grimwade, Ridley & Co. (Ipswich), Ltd., Food and Drug Packers, Ipswich.

SALESMEN WANTED

to sell our new line "Alluhr," the only safe depilatory; used and endorsed by leading actresses and film stars; product is extensively advertised; experience with chemist and hairdresser trade necessary; highest commission, expenses and drawing account to right man; with our assistance men can earn substantial amounts. For further details write to Britannia Laboratories, 13 Little Titchfield Street, London, W.1.

TOILET PREPARATIONS.—First-class Representative of outstanding ability for well-advertised and established article; good position for the right man. Write Box T.621, 8 Serle Street, W.C.2.

TRAVELLER wanted by Manufacturers of Essences, Essential Oils, &c. State full particulars 215/709, Office of this Paper.

WANTED IMMEDIATELY for N. London district, Experienced energetic Salesman with established connection in Wholesale and Retail hairdressing business; car owner an advantage; good salary and commission to right man after trial. Write at once with particulars and copy references, 215/712, Office of this Paper.

WANTED, Representatives; North of England, Scotland, Home Counties, South Coast; experience in exclusive High-class Beauty Preparations and connection with Stores, Hairdressers, &c.; own car. 215/710, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

MALAY STATES.—Junior Assistant (qualified) required; must have Optical Qualification and experience as well; single, age about 25 years; 3 years' agreement; second-class passage out and home; Scot preferred; excellent prospects for right man. Apply by letter only to Dakin Bros., Ltd., 82 Middlesex Street, E.1, with copies of references.

YOUNG, single, Qualified Chemist required for Assam, India. Write stating age, experience, health, &c., to P.S.A.C., 17 St. Helens Place, Bishopsgate, London, E.C.3.

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RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No. 1s. extra.)

A.A.A.A.A.A.—QUALIFIED (24); tall; single; first-class reils.; capable; energetic; reliable; home or abroad; Wholesale or Retail. Robertson, Hollins Lane, Warrington.

A.A.A.A.A.—LADY Assistant (26); Excellent Sales-woman; conscientious; energetic worker; accurate Dispenser; comprehensive experience; thoroughly accustomed to taking charge; proved acquisition and business builder; highest references; any county; free one week. "Dispenser," c/o 45, Hobmoor Croft, Stechford, Birmingham.

A.A.A.—ADVERTISER, unqualified; tall; 19 years' experience; abstainer; permanency or part-time; now free. Alexander, 189 Southampton Street, S.E.5.

A.A.A.—QUALIFIED (28); excellent West End and suburban experience; photographic, etc. 3, St. James' Mansions, West End Lane, N.W.6.

A.A.—PHARMACIST with extensive experience and ability; at present holding a Managerial position in large Lancashire town; desires a progressive position in the Midlands. Further particulars from 358/22, Office of this Paper.

A.A.—QUALIFIED, wants evening work four evenings weekly; West End preferred. Gray, 2 Lyndhurst Road, E.4.

A.A.—QUALIFIED Manager, 38, of proved ability, highly successful Prescriber and business builder, seeks responsible position London suburbs; thoroughly conscientious; quick and capable, with good personality; experienced all branches modern Pharmacy; sole charge; keen salesman. 359/4, Office of this Paper.

A.A.—RELIABLE Assistant (24); highly recommended all branches; Bristol references. Williams, Holly House, Wotton-under-Edge, Gloucester.

A.—QUALIFIED (37), ex-owner; Locum or Manager; permanency; South Counties; excellent experience and references; disengaged. Kimberly, Lyminge, Folkestone.

A CAPABLE Qualified Manager; industrial, agricultural, N.H.I. Dispensing; General Business; worker; modern methods; tall; good personality; middle age; permanency or Locum; moderate salary. "Chemist," 1 Borrage Green Lane, Ripon, Yorks.

A GE 23, unqualified man desires to better his position; perfect experience, Dispensing, Window-dressing, Salesmanship. 359/8, Office of this Paper.

A QUALIFIED Chemist with excellent references and seven years' varied experience, desires locum or permanency; free February 11. Gregory, 11, Cambridge Road, King's Heath, Birmingham.

A QUALIFIED Experienced Manager; disengaged; desires permanency; London or Suburbs; moderate salary. Davies, 109, Alexandra Drive, Surbiton, Surrey.

A N Experienced Assistant desires a permanent appointment; Dispenser, Counter Man; well up; disengaged. "F.," 286 Kingsland Road, E.8.

A SSISTANT, unqualified (22); disengaged; requires temporary or permanent post; tall, energetic; fully experienced; highest references. Jones, 23 Battersea Rise, S.W.11.

C HEMIST, Experienced, desires change; would manage small business; town or country. 360/5, Office of this Paper.

C HEMIST, Qualified (27), desires position as Assistant or Manager; 9 years' experience; London 4; Optics, F.B.O.A. Davies, 7, Kinsale Road, Peckham Rye, S.E.

E LDERLY Qualified Chemist; active, capable and reliable; desires management in Liverpool. Thomas White, 21 Miller Street, Dingle, Liverpool.

H AVE your windows attractively dressed by experienced Lady Assistant possessing original ideas; terms moderate; London only; any time. P.C.B. 62/35, Office of this Paper.

I PSWICH OR DISTRICT.—Young Lady Dispenser; Hall certificate; 2 years' experience; willing to assist at Counter. 358/28, Office of this Paper.

L ADY, unqualified, Pharmacy Trained, desires post; 12 years' London and Provincial experience; capable and energetic worker; good references. 359/25, Office of this Paper.

L ADY, unqualified, desires change; accustomed to management; 12 years' experience; dispensing, photographic, book-keeping; moderate salary; London preferred. 359/21, Office of this Paper.

L EEDS.—Qualified Manager or Superintendent (50); good Dispenser; last situation 17½ years. Dick, 15 Houghley Ave., Armley, Leeds.

L OCUM, emergency, relief, any period, town or country; thoroughly competent; good references; disengaged. Chemists, 56 Rudlee Road, Balham, S.W.12.

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SALES AND (OR) GENERAL MANAGER

Advertiser, thoroughly experienced in the proprietary, toilet, perfumery and other trades, a capable sales, advertising and general manager of good personality and initiative, proved judgment and leadership, desires to contact a prospective employer of good repute.

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LOCUM or Dispenser or Manager; qualified; over 30 years' experience; disengaged; temperate; energetic; excellent references. 359/26, Office of this Paper.

MANAGER, qualified; disengaged; excellent testimonials; previous London managerial experience; salary £4 per week; anywhere London; interview any time. Watson, c/o 21 Woodland Road, N.16.

M.P.S.—Keen Salesman, wide experience London and Provinces, seeks appointment as Manager, Senior Assistant or Dispenser; highly recommended; married; abstainer. P.C.B. 62/27, Office of this Paper.

PART-TIME Position for Saturday afternoons (also available weekday evenings if necessary) required by Qualified Optician (F.B.O.A., F.S.M.C.) in London district; highest references; 20 years' experience. Particulars to P.C.B. 62/31, Office of this Paper.

QUALIFIED Assistant or Manageress (25); 5 ft. 8 ins.; good education; energetic; good experience in all branches; 4 years' last reference; free 1 month; Watford or N.W. District preferred. 359/3, Office of this Paper.

QUALIFIED Gentleman, successfully managing north-country business, desires change; London, Lancashire or Hull preferred but not essential; good window-dresser, reliable dispenser; moderate salary. 358/37, Office of this Paper.

QUALIFIED Gentlemen (35); high-class West End and Provincial experience, seeks engagement as Manager; has intimate knowledge of retail trade and is highly recommended; London and Home Counties preferred. 360/3, Office of this Paper.

QUALIFIED (lady, 28) Manager; 10 years' thorough experience; recommended as Salesman, Window Dresser, Stock-keeper; capable, energetic worker; keen business woman, with good personality. 358/26, Office of this Paper.

QUALIFIED; Manager or Senior; middle-aged; active, energetic, reliable, trustworthy; London experience; disengaged. Kemp, M.P.S., 27 Summers Lane, N.12.

QUALIFIED (25), experienced; desires permanency; London or provinces; disengaged. T. B., 27 Torre Square, Torquay.

QUALIFIED (34) Manager or Assistant; experienced all branches. Chemist, 50, Grove Lane, Camberwell, S.E.5.

QUALIFIED (28), smart appearance; perfect all-round experience; good references. 358/3, Office of this Paper.

QUALIFIED (25); at present successfully managing Yorkshire business, desires change; single; good character; excellent window-dresser; reliable dispenser; make excellent manager for unqualified gentleman desiring to open business. 358/370, Office of this Paper.

RELIABLE Hard-working Assistant (24); 5 years' experience; accurate and quick Dispenser; tall, good address; Sheffield or district preferred; excellent references. J. Taylor, 31 Fairfield Street, Lincoln.

SMART Qualified Woman desires post as Manager or Assistant; Blackpool or district; previous experience as Manager; 7 years' good experience in Dispensing, Counter, Toilets, Photography, Window Dressing; Stock-keeping; excellent references. Dorothy E. Lees, 14 Windermere Road, Blackpool.

UNQUALIFIED Assistant; 4 years' experience; excellent references; desires temporary or permanent position. Write Ellem, 50, Brixton Hill, London.

WEST-End experience; Unqualified Assistant (31) requires Part-time Position; free from 6.30 p.m., Saturday 1 p.m., Sunday all day. 22 Graemes Dyke Avenue, East Sheen, S.W.14.

WOMAN Pharmacist, 11 years' London experience; accustomed to management of retail; excellent references; moderate salary; middle- or working-class in London preferred; disengaged now. 359/6, Office of this Paper.

YOUNG Lady; unqualified; over 3 years' experience Dispensing, Counter; Brighton or near. Read, 40 Norman Road, Newhaven, Sussex.

YOUNG Qualified seeks post; Medium-class Trade, London; completed 4½ years similarly; energetic; thoroughly trustworthy; free immediately. "Menthol," 351/6, Office of this Paper.

YOU want a Capable Qualified Manager to increase your figures for 1933. "I am he"; fully experienced; 6 years West End and City, including night work. Phone Temple Bar 8192, or write Espey, 88 Charing Cross Road.

£4 WEEKLY or salary and commission on Optics. Qualified Dispenser and Optician, F.N.A.O. (by exam.); middle-aged; abstainer; active; quick and accurate dispenser, good prescriber and vet. 359/11, Office of this Paper.

WHOLESALE.

NORTHERN IRELAND.—Progressive Agent with sound personal connection among Chemists is open for one or two additional lines. 360/9, Office of this Paper.

A SALES REPRESENTATIVE with record desires post; qualified; 27 years of age; tall; excellent references. 359/13, Office of this Paper.

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Why keep them any longer? Turn them into CASH.

I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

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I AM 45, still young and and enthusiastic; accustomed to responsibility and a strict disciplinarian. My record is a successful one and will bear rigid investigation. References prove unquestionable integrity and habits. Up-to-date office management. Valuable experience of sales organisation and advertising. I offer you a creative brain. I am equipped to plan and put into operation schemes which will increase your nett profits. 357/34, Office of this Paper.

QUALIFIED Chemist (28); tall, smart, tactful; 12 years' London and Provincial Retail experience; desires to represent established house; excellent references; car driver; now in London; interviews Wednesday afternoon. 358/33, Office of this Paper.

REPRESENTATIVE; extensive connection London and Provinces; 400 Chemists; new accounts 12 months; car; salary, commission and expenses basis. "Ability," P.C.B. 62/36, Office of this Paper.

SCOTLAND.—Well-known Representative; with first-class connection Chemists; 10 years' experience Medical Propagandist; desires position with reputable House or Agencies for Medical Profession; part expenses; own car. 358/32, Office of this Paper.

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A FINE PHARMACY can now be fitted complete ready for opening from £95 upwards. Old-time shops modernised and brought up to date at lowest prices. Many recent testimonials. Designs, advice and prices free from PHILIP JOSEPHS & SONS, LTD., Pharmacy Fitters for 107 years, 90/92 St. John Street, Clerkenwell, London, E.C.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

CHEMISTS' Fittings, direct from manufacturer; soundly constructed in oak and mahogany; 8 ft. Drug Run, £18; 6 ft. Dispensing Screen, £14; 6 ft. Showcase Fronted Counter, £8 5s.; 6 ft. Wall Case, £11; 6 ft. Glass Counter, £8 15s.; Counter Case, 30 x 24 x 18, £2 5s., etc. Send now for photographs, or call and inspect. MYERS, Complete Chemist Fitters, 134a Kingsland Road, E.2, near Shoreditch Church. Bishopsgate 2524.

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SPEEDY and efficient service, backed by over twenty years' experience in every class of business. Most reasonable and inclusive fee. Advice free. Write to A. B. SLACK, 721 Princess Road, West Didsbury, Manchester.

RUDDUCK & CO. last year sold over £8,000 of Pharmacy Fixtures from stock. We have now installed a fresh supply of Newly-designed Fixtures, and these are to be sold at exceptionally low prices, either in sets or separately. Visit our showrooms or write your particulars, 219/227 Old Street, London, E.C.1.

TREBLES' for Chemists' Fittings, Shop Fronts, Alterations, new or second-hand. Let us quote for your requirements. Pharmacy Fitters for over a century. 549 Lea Bridge Road, Leyton, London, E.10. Leytonstone 2475.

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3 DOZEN Soft Rubber Catheters: all sizes 4s. per doz., same price assorted. 4 Phenazonum, £2; 2 Pot. Iodide, 27s. 360/15, Office of this Paper.

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